

# Service Manual

Open Deck  
**RS-1700**

**Vol. 1**

"Isolated Loop" Quartz-Locked  
Direct-Drive Three-Motor Auto-  
Reverse Open-Reel Tape Deck

## Information:

The Service Manual for model RS-1700  
is in 2 parts: Vol. 1 and Vol. 2.  
Vol. 1 does not include measurements  
and adjustments.  
Refer to Vol. 2 for these items.



## RS-1500U MECHANISM SERIES

## Specifications (Catalog specifications for sales)

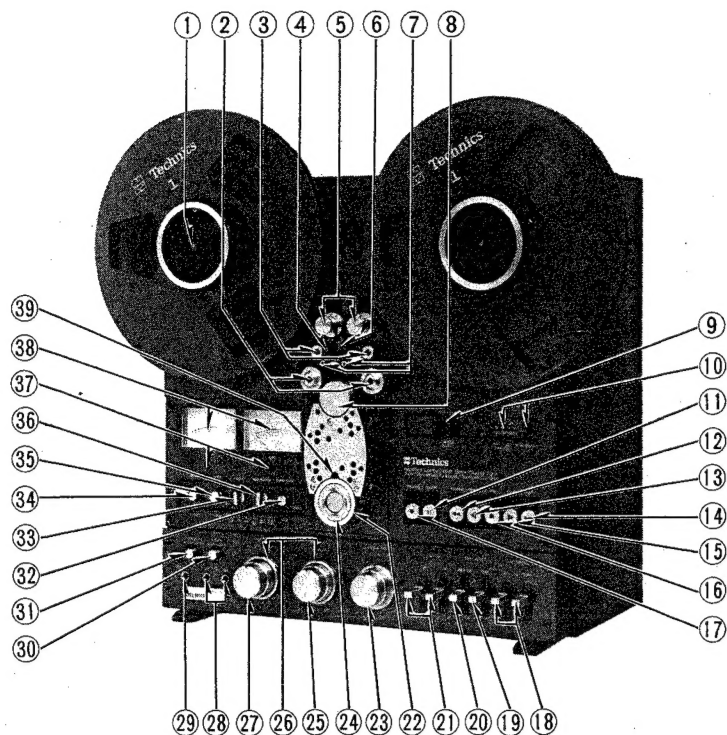
Operation:	Automatic reverse	Auto-stop sensing:	Photoelectric, Tension roller switches or Take-up reel table servo control system
Track system:	4-track 2-channel recording, playback, erasure on both way	Recording bias:	120 kHz
Heads:	6 heads system	Bias level:	BIAS selector at "1" 90% at "2" 100% at "3" 110%
Motors:	2-record/erasure combination head and 2-playback head	Equalization:	NAB standard position "2" of "EQ" and "BIAS" selector set for Scotch #207 tape
Capstan:	3 direct-drive motors system	Recording level calibration:	Referenced to 185 nWb/m
	Quartz control phase-locked DC brushless servo direct-drive motor	Inputs:	
Reel table:	2-tape tension controlled DC brushless direct-drive motor	MIC;	Unbalanced phone type jack sensitivity 0.25 mV (−72 dB), input impedance 4.7 KΩ (at 0 VU, Mic. level control at maximum position) 2.5 mV (−52 dB)/4.7 KΩ with 20 dB Mic.
Reel size:	13 cm to 26.5 cm (5" to 10-1/2") outside diameter	LINE;	Unbalanced phono type jack sensitivity 60 mV (−24 dB), input impedance 150 KΩ overload margin = infinity (line input connected to LINE IN level control before pass through the amplifier)
Tape speed:	38 cm/s, 19 cm/s and 9.5 cm/s (15 ips, 7-1/2 ips and 3-3/4 ips) (recording and playback)	THROUGH OUT;	Same as LINE IN (connected in parallel to LINE IN)
Wow and flutter:	0.018% (WRMS), ±0.035% (Peak DIN)	Outputs:	
	0.03% (WRMS), ±0.06% (Peak DIN)	LINE;	2-pair of unbalanced phone type jack output level 0.55 V at 0 VU (output level control at "8")
	0.06% (WRMS), ±0.12% (Peak DIN)		0.775 V or more at output level control maximum output impedance less than 3 KΩ load impedance 22 KΩ over
Speed deviation:	±0.1% at 38 cm/s (15 ips)	HEADPHONE;	Stereo phone type jack output level 80 mV at 0.55 V line output load impedance 8Ω
Speed fluctuation:	0.05% at 38 cm/s (15 ips)	Power requirements:	AC 110/125/220/240 V, 50/60 Hz
Frequency response:			DC 24 V, 4.9 A peak (with optional battery adaptor RP-086)
38 cm/s (15 ips);	30~30,000 Hz ±3 dB (rec. level = −10 dB from 0 VU)	Power consumption:	160 W
19 cm/s (7-1/2 ips);	20~25,000 Hz ±3 dB (rec. level = −20 dB from 0 VU)	Weight:	25.7 kg, (56 lbs 9 oz)
9.5 cm/s (3-3/4 ips);	20~15,000 Hz ±3 dB (rec. level = −20 dB from 0 VU)	Dimensions (W×H×D):	45.6 cm×44.6 cm×25.8 cm (18"×17-1/2"×10-1/8")
Signal-to-noise ratio:	Weighted (ASA-A curve) 1 kHz		
Recording level:	(3% THD) (185 nWb/m + 6 dB)		
38 cm/s (15 ips);	68 dB 62 dB		
19 cm/s (7-1/2 ips);	68 dB 62 dB		
9.5 cm/s (3-3/4 ips);	67 dB 60 dB		
Distortion (THD):	Measured via tape at 400 Hz (at any speed)		
	Less than 0.8% (0 VU)		
	Less than 2.0% (185 nWb/m + 6 dB)		
Channel separation:	Better than 50 dB		
Erasing ratio:	Better than 65 dB (rec. level = +10 dB at 1 kHz)		
Pitch control:	±6% (recording and playback)		
Time counter accuracy:	±1% at 38 cm/s (15 ips)		
Fast winding time:	150 sec. for 762 m (1.5 mil, 2500 feet) tape		
Auto-reverse sensing:	Photoelectric		

Specifications based on use of Technics RT-10B218 (Scotch #207) tape.  
Specifications are subject to change without notice.

**Technics**

**Matsushita Electric Trading Co., Ltd.**  
P.O. Box 288, Central Osaka Japan

# LOCATION OF CONTROLS AND COMPONENTS



- ① Reel clamber
- ② Double pinch rollers
- ③ Tape marker
- ④ Light sensing system: Light-emitting diode
- ⑤ Tension rollers
- ⑥ Light sensing system: Photo-transistor
- ⑦ Guide pins
- ⑧ Capstan
- ⑨ Cue lever/DC power switch
- ⑩ Time counter, reset button
- ⑪ Pause button
- ⑫ Rewind button
- ⑬ Reverse button
- ⑭ Fast-forward button
- ⑮ Forward button
- ⑯ Stop button
- ⑰ Record button
- ⑱ Record mode switches
- ⑲ Bias selector
- ⑳ Equalization selector
- ㉑ Monitor switches
- ㉒ Reversing roller
- ㉓ Output level controls
- ㉔ Edit dial
- ㉕ Line-input level controls
- ㉖ Preset markers
- ㉗ Microphone level controls
- ㉘ Microphone jack
- ㉙ Headphones jack
- ㉚ Microphone attenuator switch
- ㉛ Meter scale selector
- ㉜ Timer start switch
- ㉝ Tape speed selector
- ㉞ Power switch
- ㉟ Pitch control
- ㊱ Reverse selector
- ㊲ Level meter zero-point adjustment screws
- ㊳ Level meters
- ㊴ Stroboscope lamp
- ㊵ Voltage selector
- ㊶ Remote-control connector
- ㊷ Power cord holder
- ㊸ Battery selector
- ㊹ DC IN connector
- ㊺ Power cord
- ㊻ Ground terminal
- ㊼ Line input jacks
- ㊽ "Throughout" jacks
- ㊾ Line output jacks

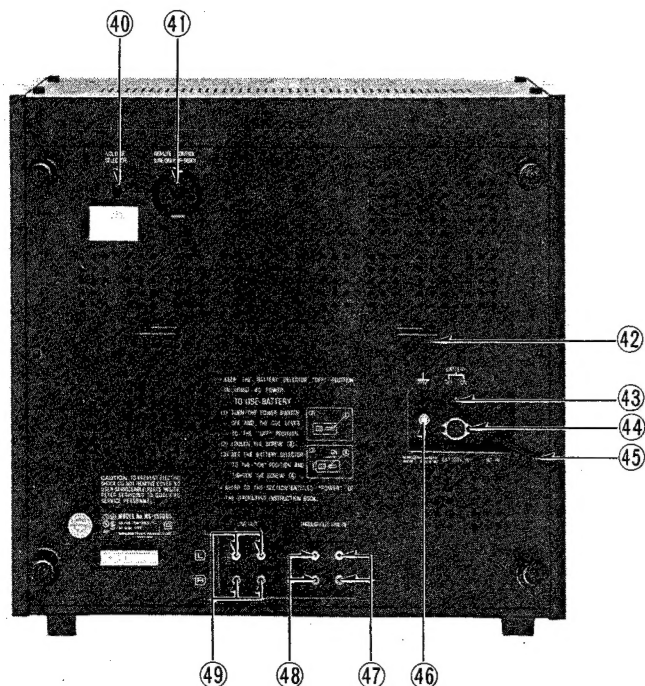


Fig. 1

1  
2025



# AMPLIFIER SECTION BLOCK DIAGRAM

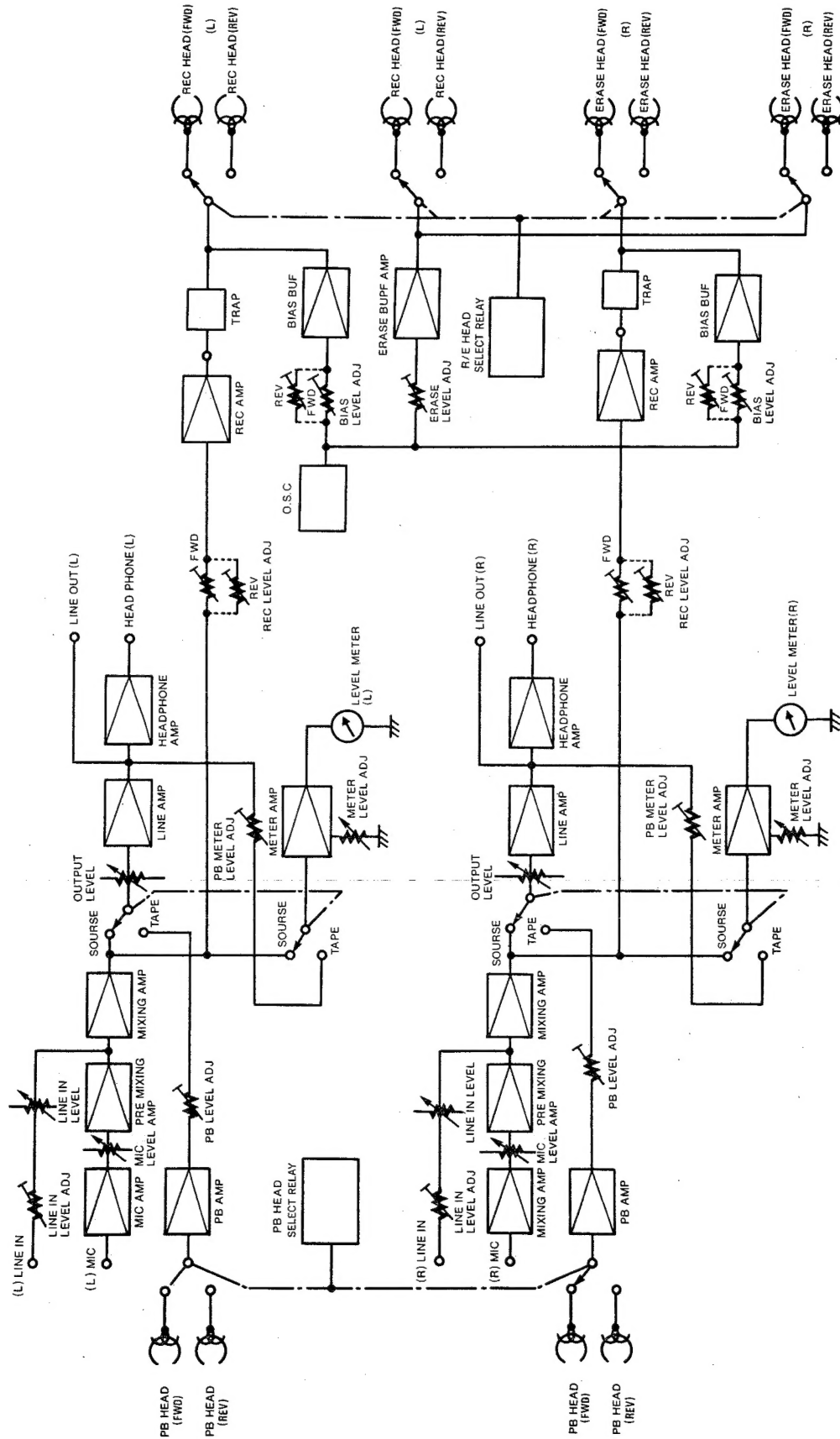


Fig. 2

# MAIN CONTROL CIRCUIT SECTION

## Equivalent Circuit

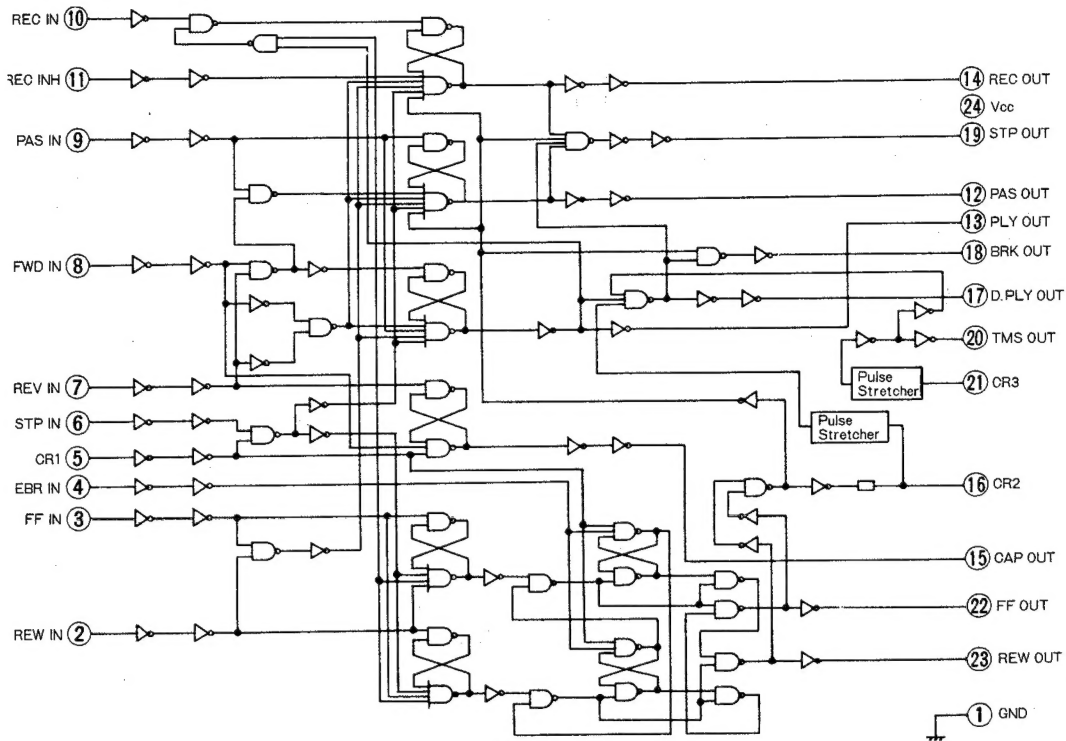
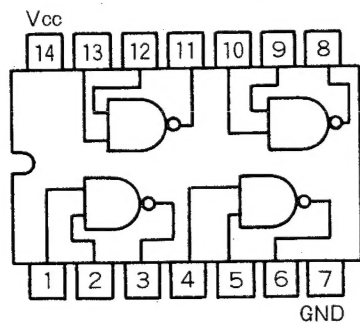


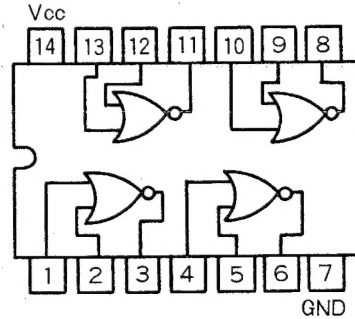
Fig. 3

## Internal Circuit of ICs.

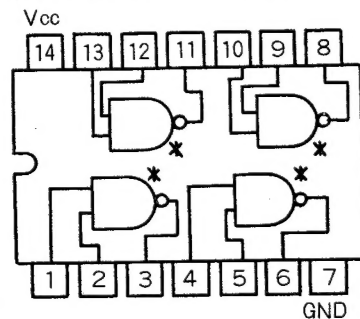
M53200P Quadruple 2-Input Positive Nand gate



M53202P Quadruple 2-Input Positive Nor gate



M53203P Quadruple 2-Input Positive Nand gate



M53204P Hex Inverter

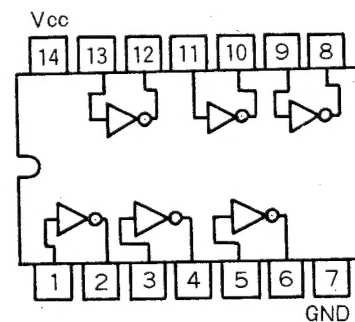


Fig. 4

# DISASSEMBLY INSTRUCTIONS

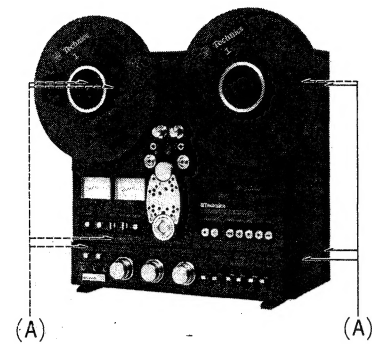


Fig. 5

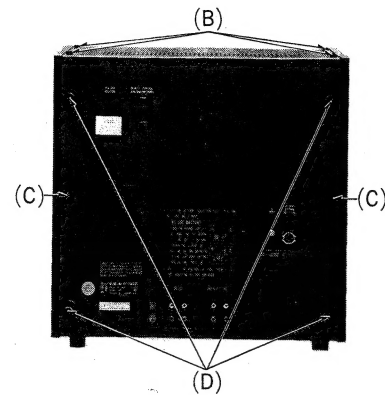


Fig. 6

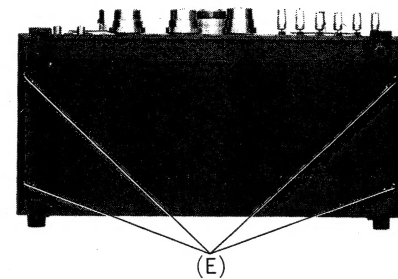


Fig. 7

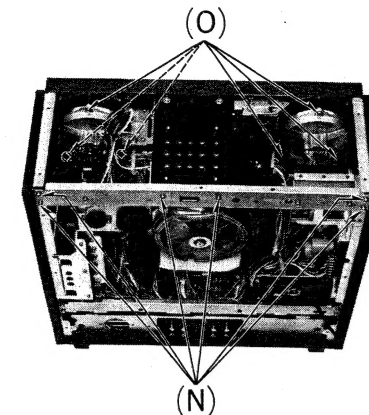


Fig. 14

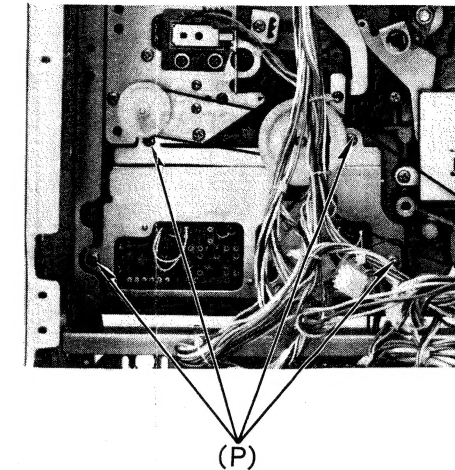


Fig. 15

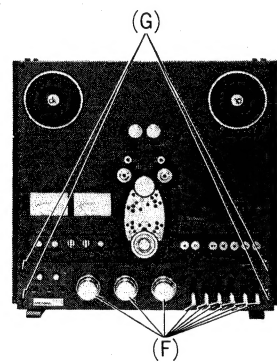


Fig. 8

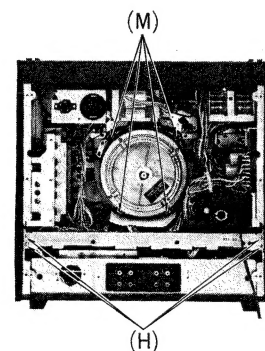


Fig. 9

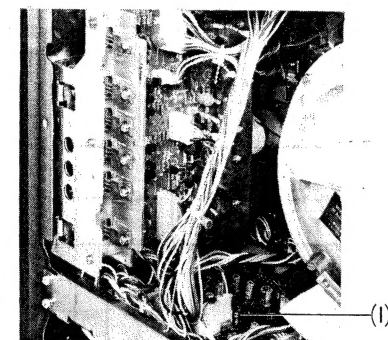


Fig. 10

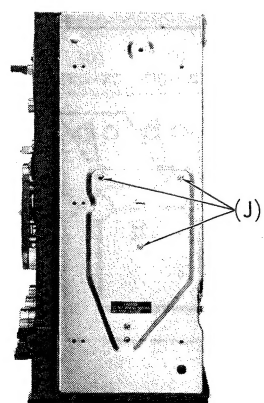


Fig. 11

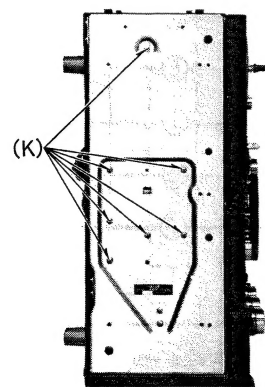


Fig. 12

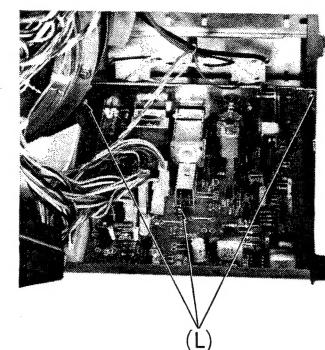
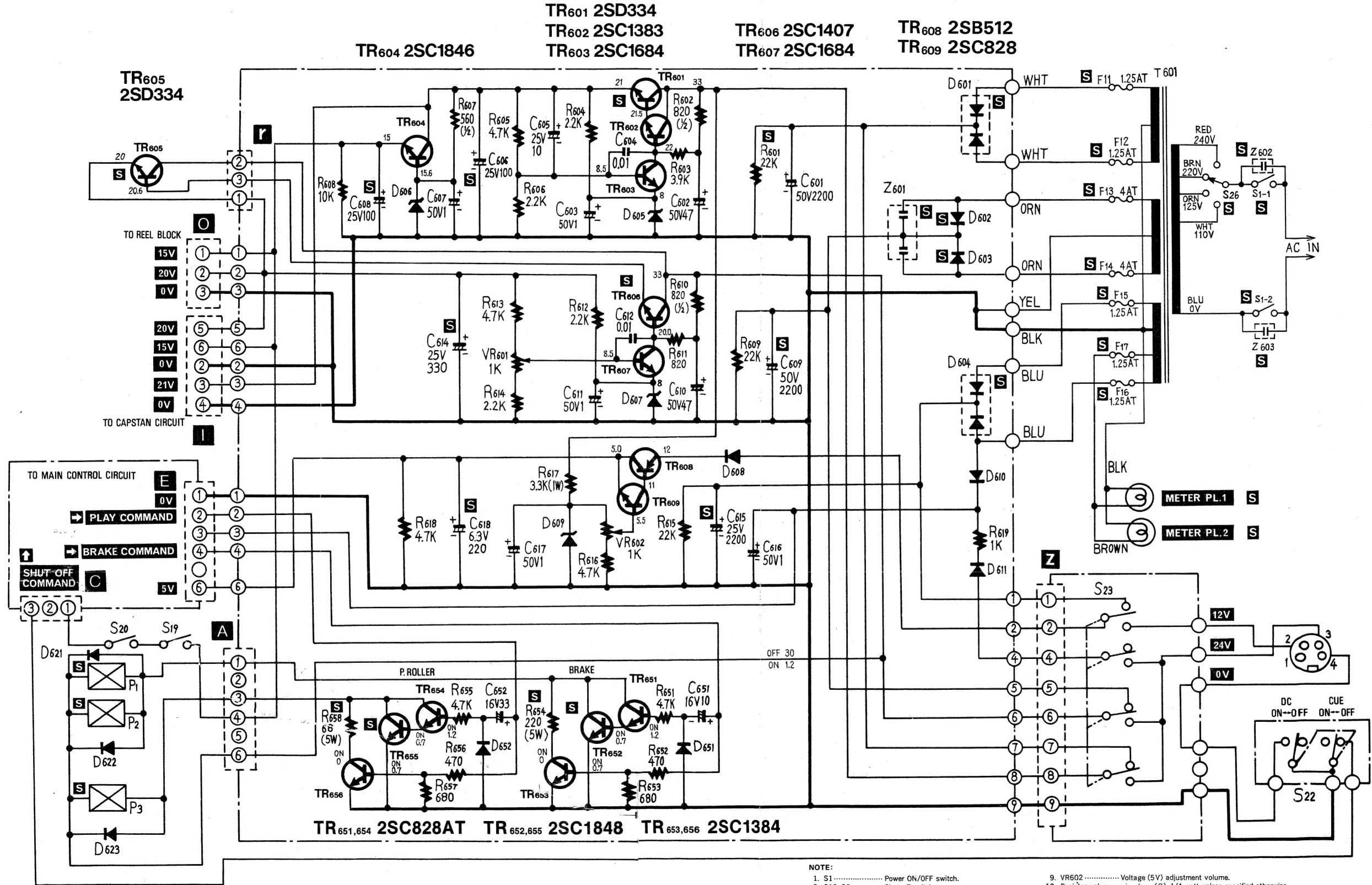


Fig. 13

Procedure	To remove —	Remove —	Pcs.	Shown in fig. —
1	Side board	Screws (A)	(8)	5
—	Top cover	Screws (B)	(4)	6
—	Rear cover	Screws (C) (D)	(2), (4)	6
—	Bottom cover	Screws (E)	(4)	7
2	Function panel and main P.C.B. assembly	Knobs (F) Screws (G)	(9), (4)	8
—	Main control P.C.B. assembly	Screws (H) (I) Connectors	(4), (1) (10)	9, 10
—	Reel motor driving P.C.B. and reel motor tension control P.C.B	Screws (J)	(3)	11
—	Power supply P.C.B	Screws (K)	(7)	12
—	Capstan motor control P.C.B	Screws (L)	(3)	13
—	Capstan motor assembly	Screws (M)	(4)	9
—	Power transformer angle assembly	Screws (N)	(6)	14
3	Reel motor assembly	Screws (O)	(6)	14
—	Function button control P.C.B. assembly	Screws (P)	(4)	15

# SCHEMATIC DIAGRAM MODEL RS-1700

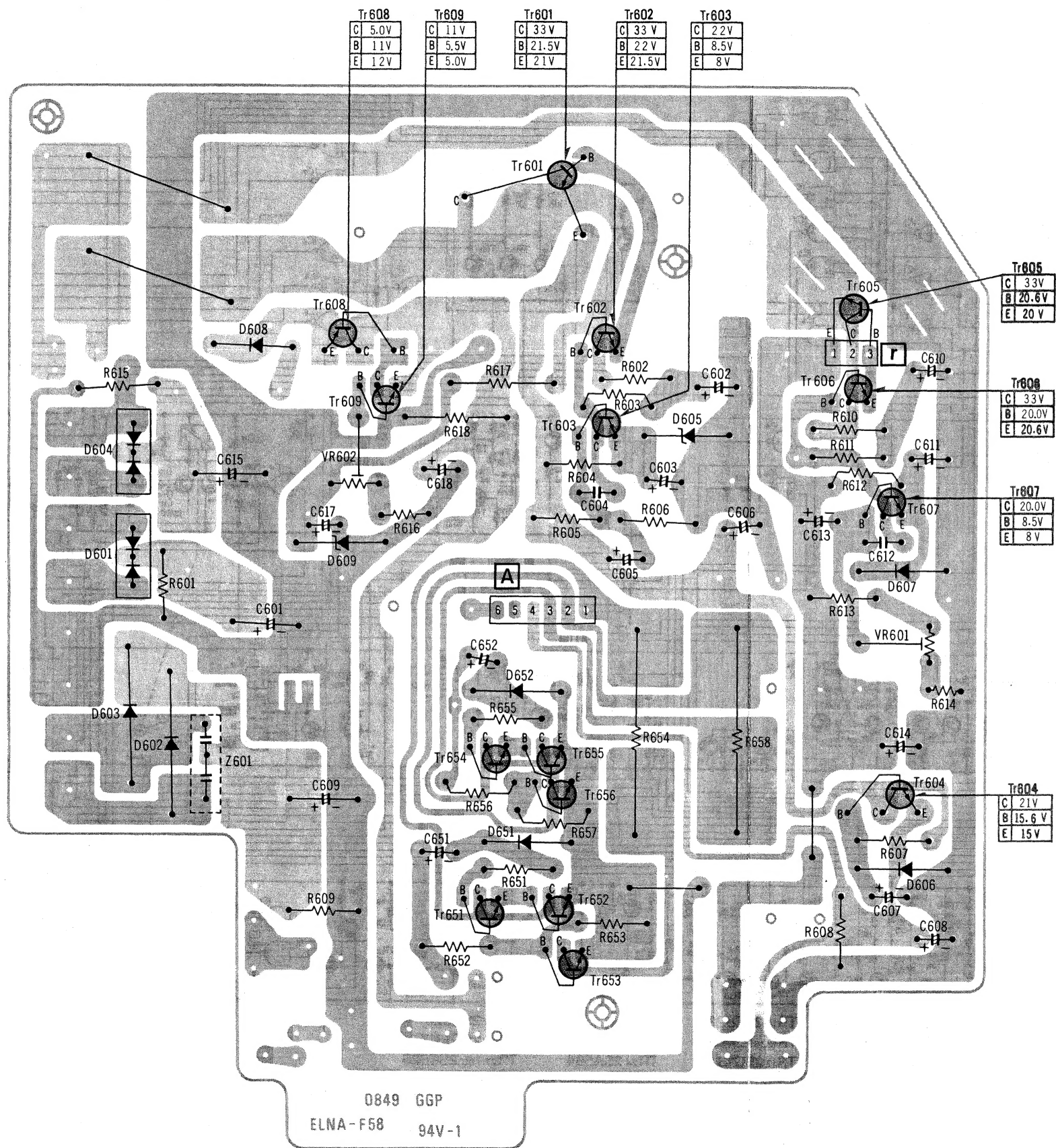
## Power Supply Section





# CIRCUIT BOARD

## Power Supply

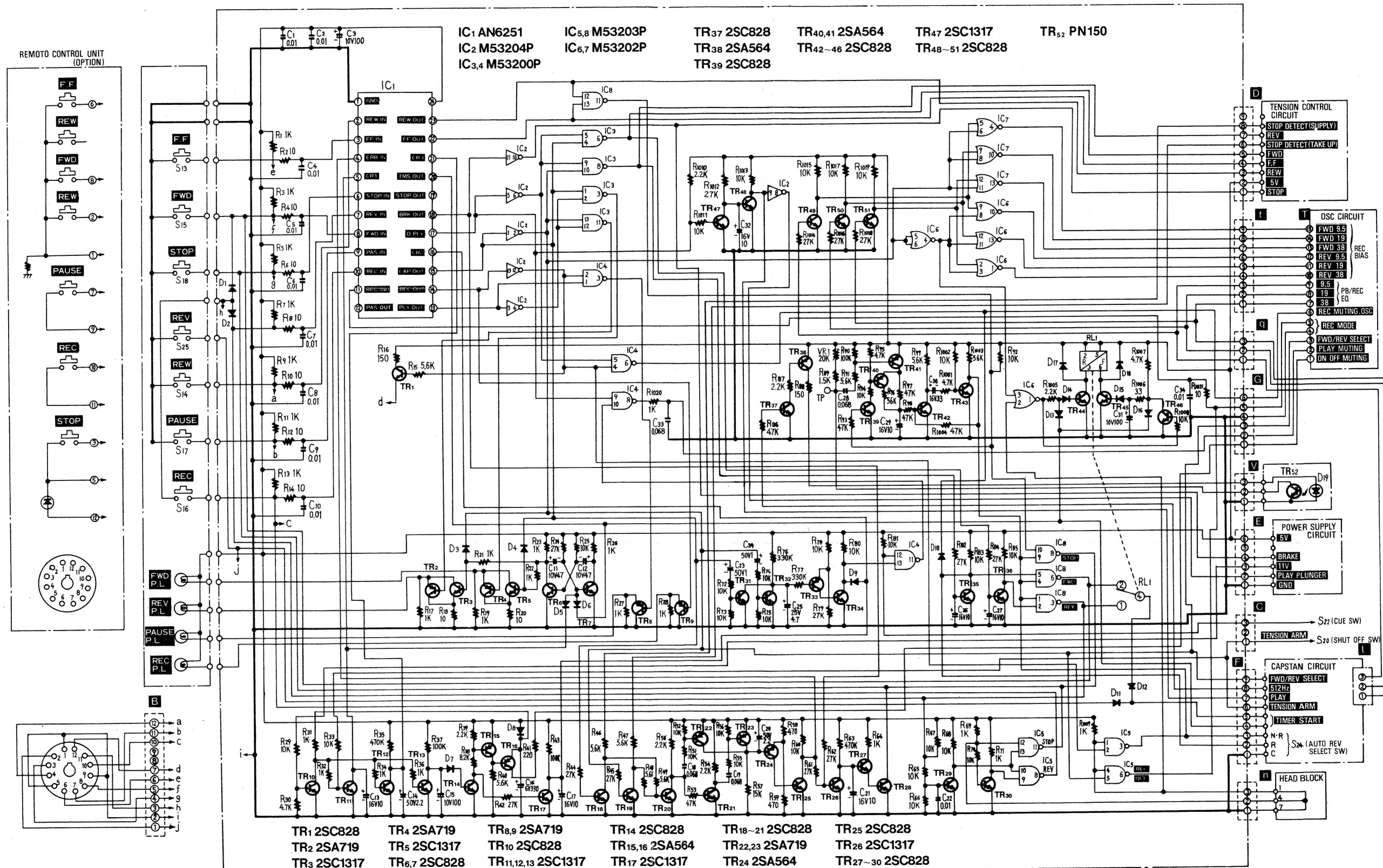


**NOTE:**  
The circuit shown in red on the conductor is B circuit.  
Values indicated in   are DC voltage between the chassis and electrical parts.



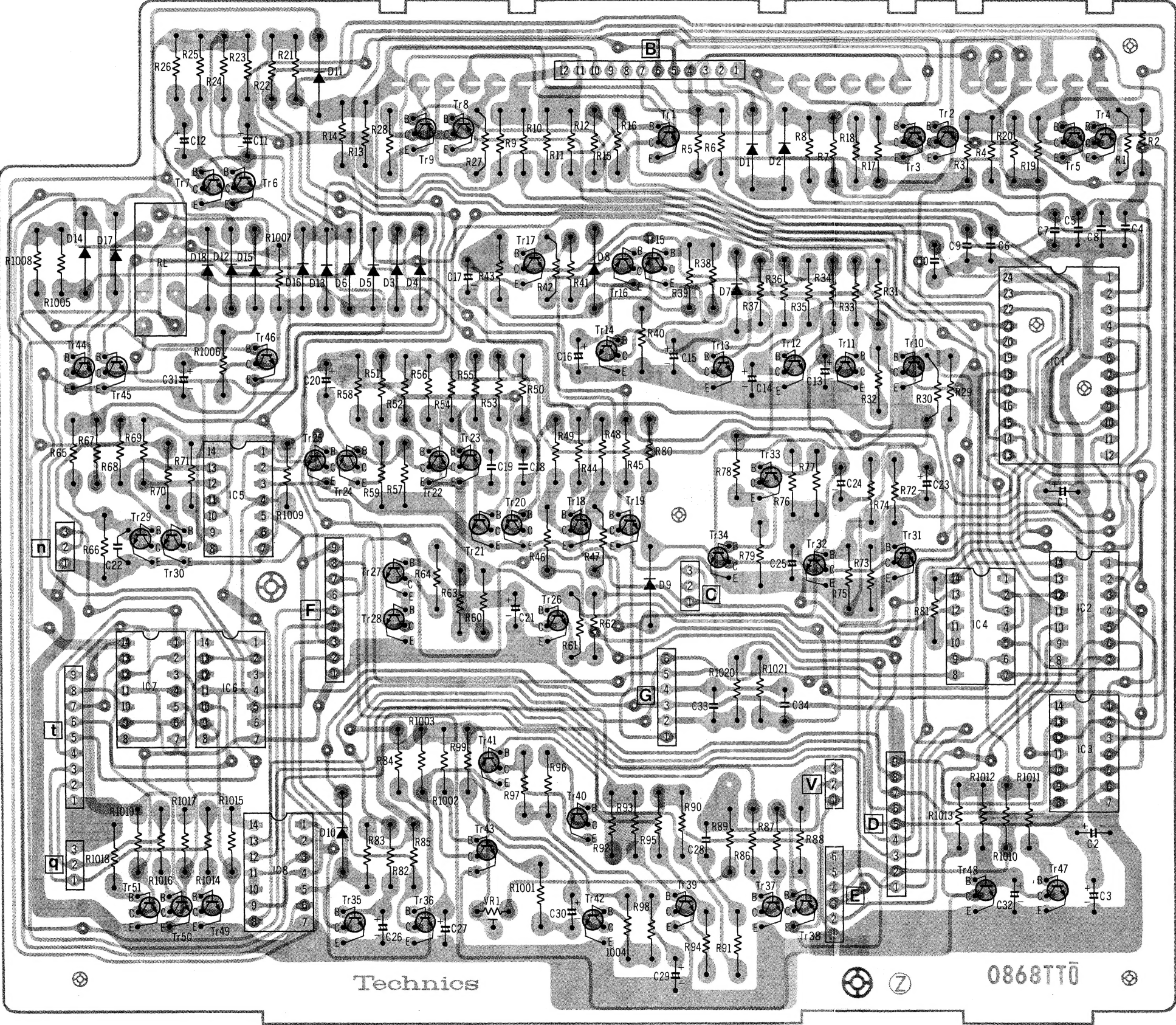
# SCHEMATIC DIAGRAM MODEL RS-1700

## Main Control Section



- NOTE:**
- S13~18, 25..... Control key switch.
  - VR1..... Photo transistor adjustment VR.
  - RL1..... Forward/reverse select relay.
  - Resistor values are in ohms ( $\Omega$ ), 1/4 watt unless specified otherwise.  
K=1,000 $\Omega$ .
  - Capacitor values are in microfarads ( $\mu$ F) unless specified otherwise.  
P=Pico-farads.
  - All voltage values show in circuitry are under no signal condition with volume control at minimum position.  
For measurement, use VTVM.
  - indicates that only parts specified by the manufacturer be used for safety.

CIRCUIT BOARD  
Main Control

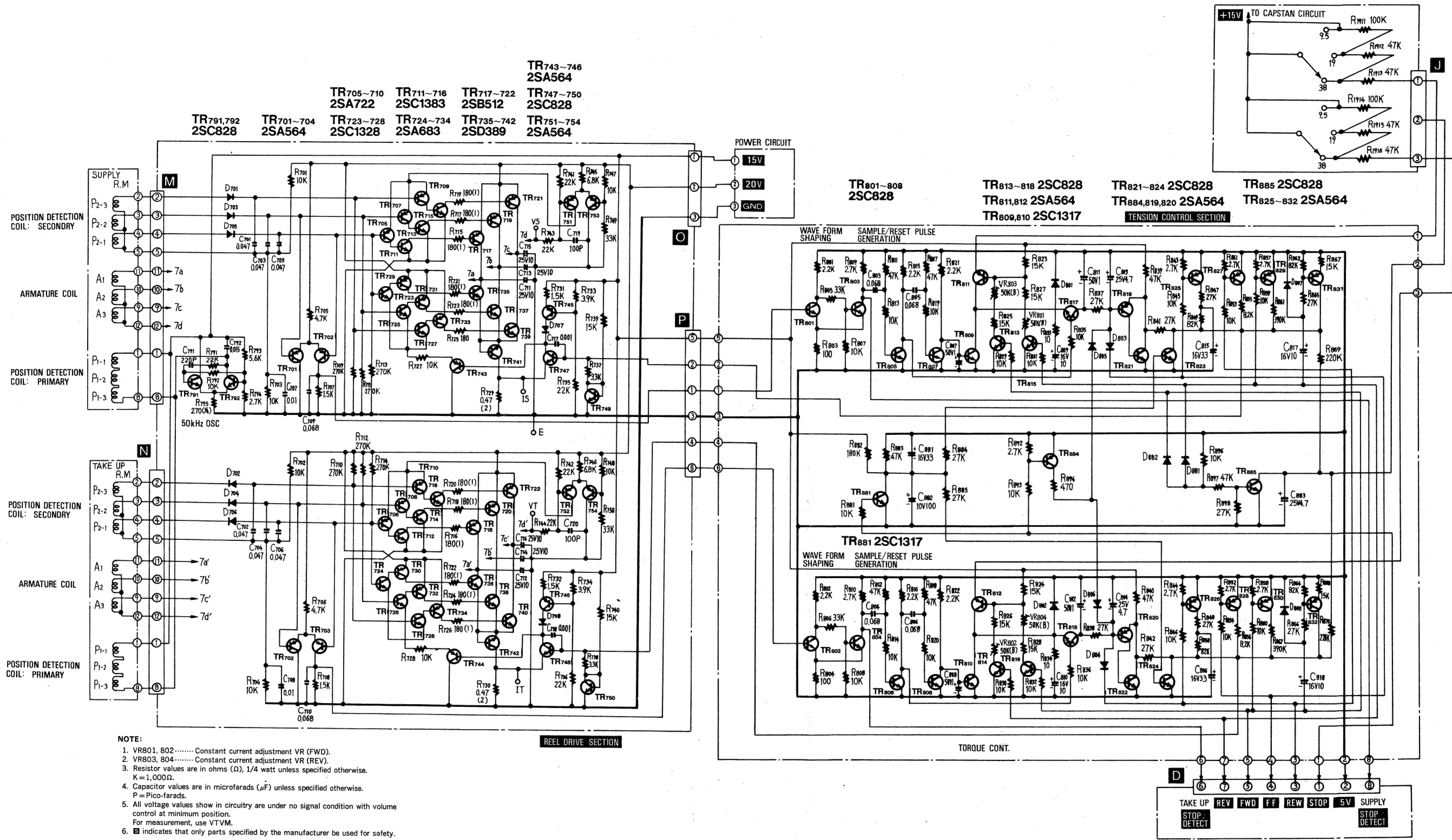


NOTE:  
The circuit shown in red on the conductor is B circuit.  
Values indicated in   are DC voltage between the chassis and electrical parts.



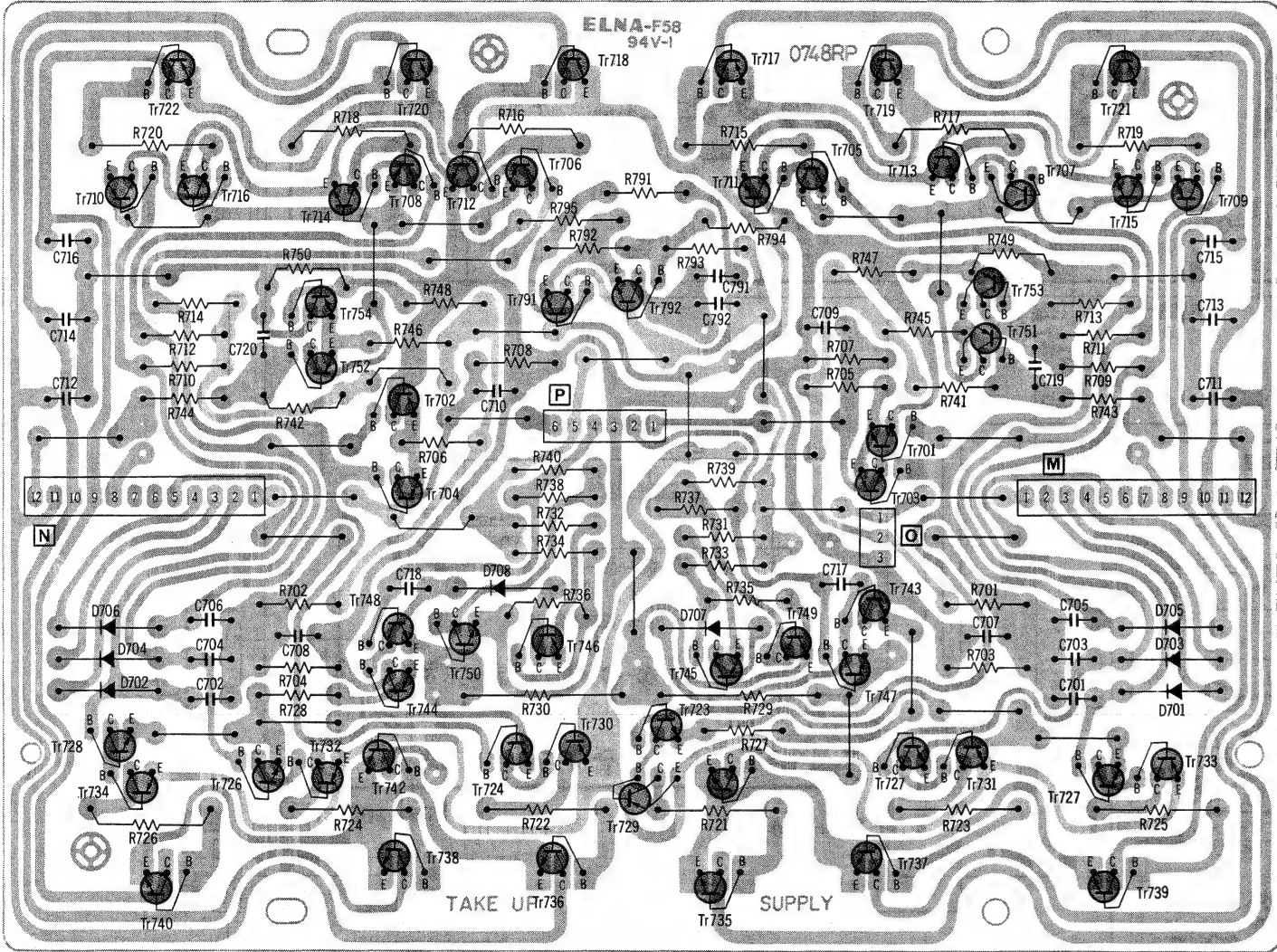
# SCHEMATIC DIAGRAM MODEL RS-1700

## Reel Motor Section



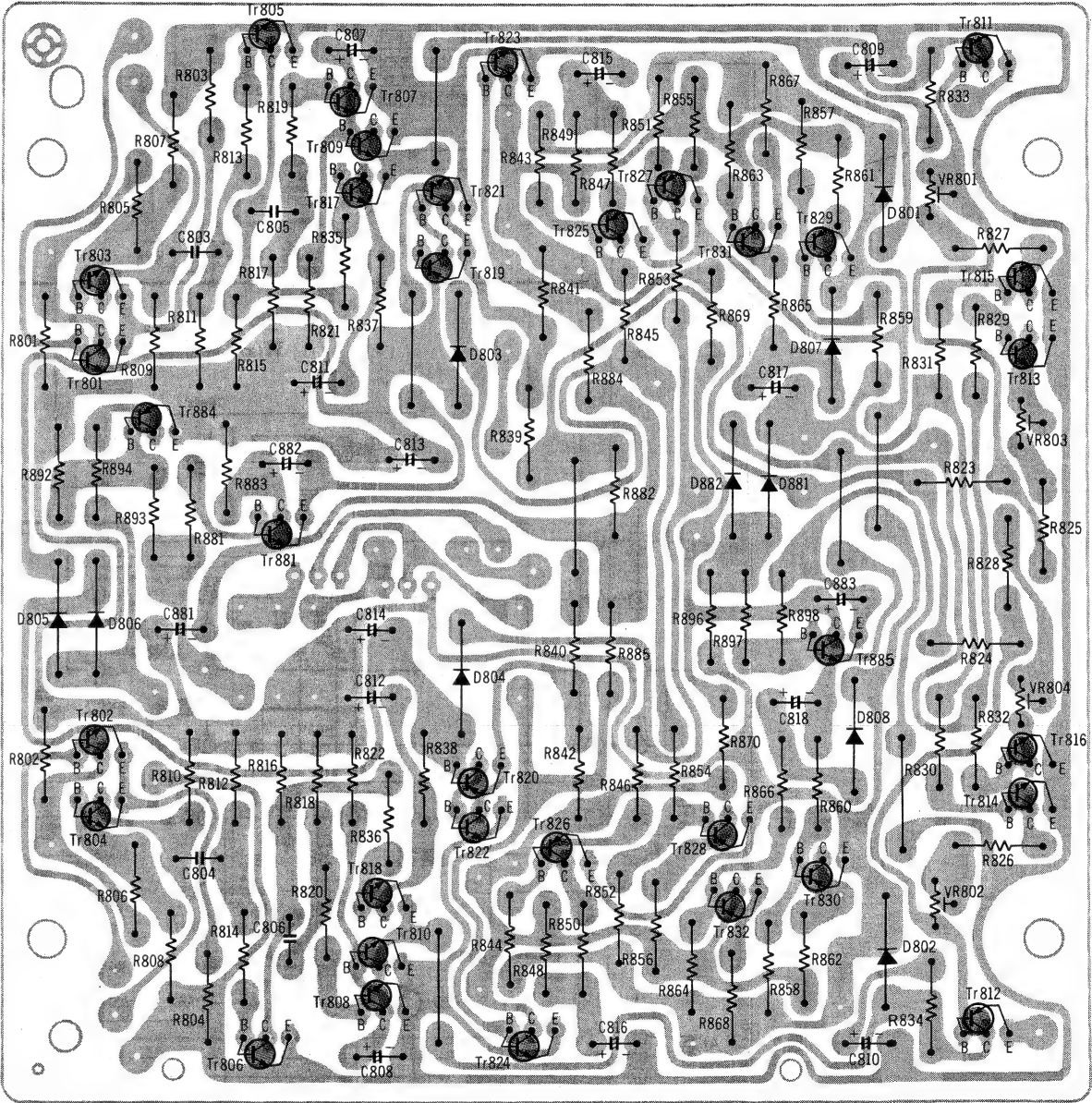
CIRCUIT BOARD

Reel Motor Driving



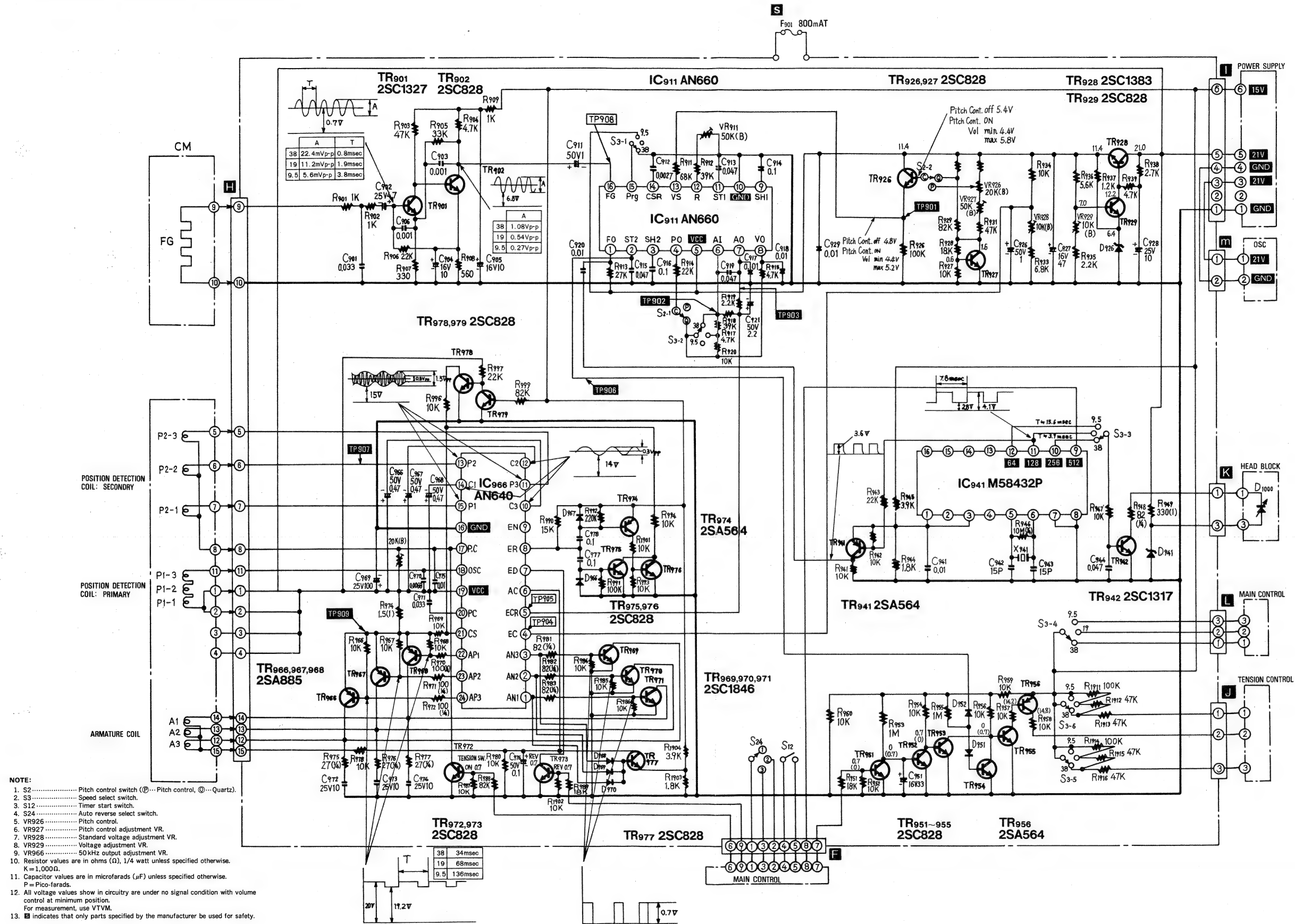
NOTE:  
The circuit shown in red on the conductor is B circuit.  
Values indicated in   are DC voltage between the chassis and electrical parts.

Reel Motor Tension Control





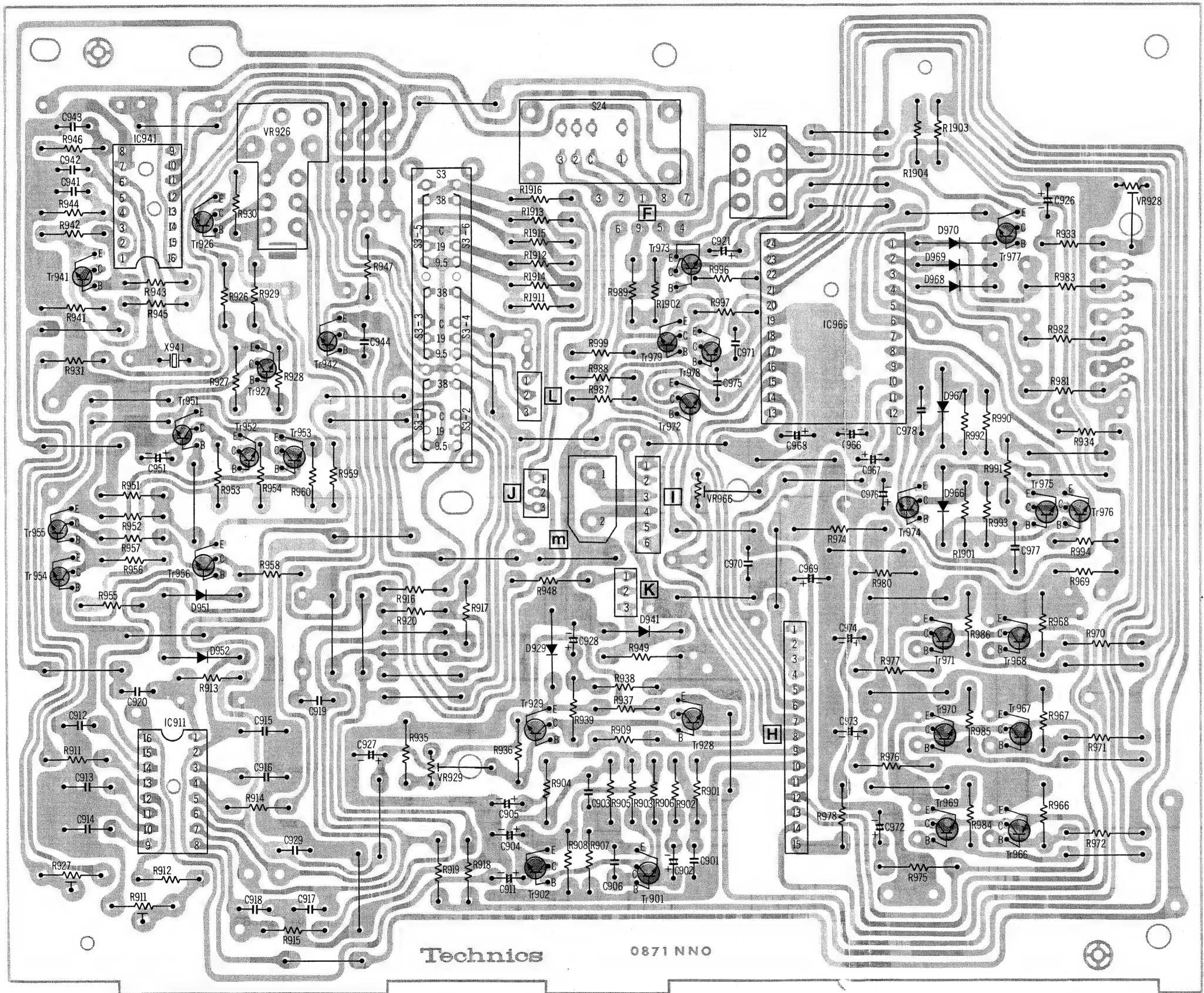
SCHEMATIC DIAGRAM MODEL RS-1700  
Capstan Motor Section



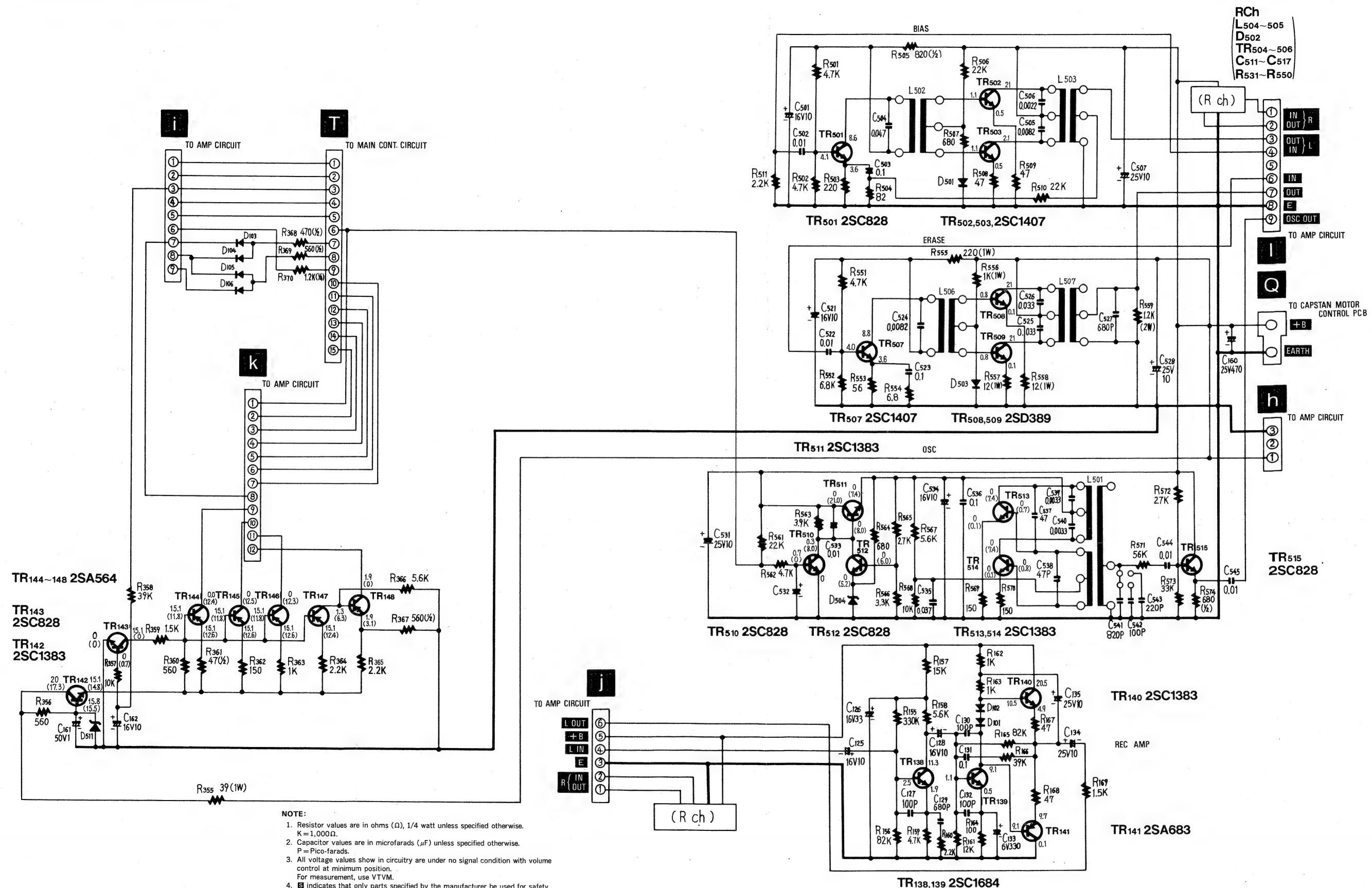


# CIRCUIT BOARD

Capstan Motor Control



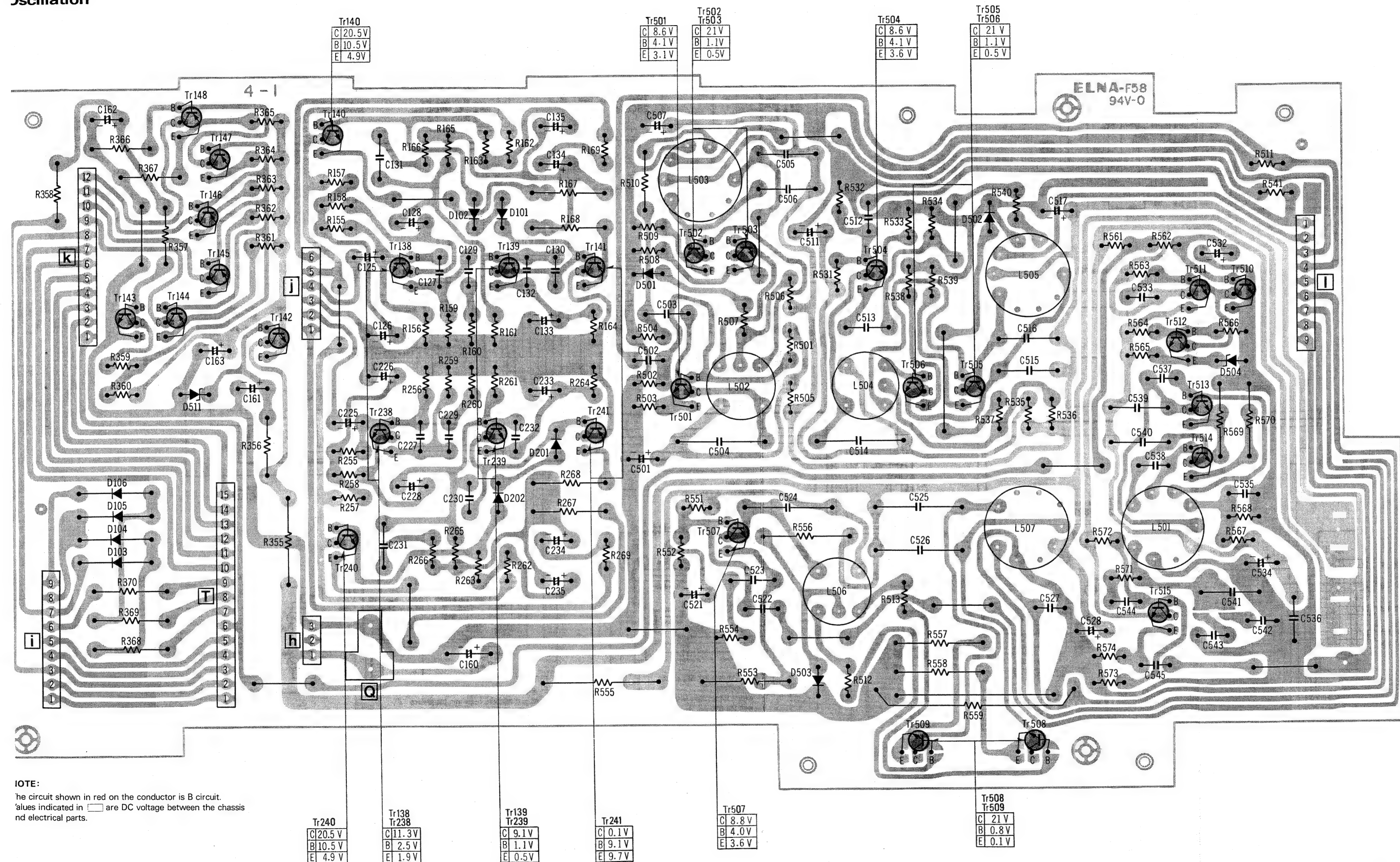
**SCHEMATIC DIAGRAM MODEL RS-1700**  
**Oscillation Section**





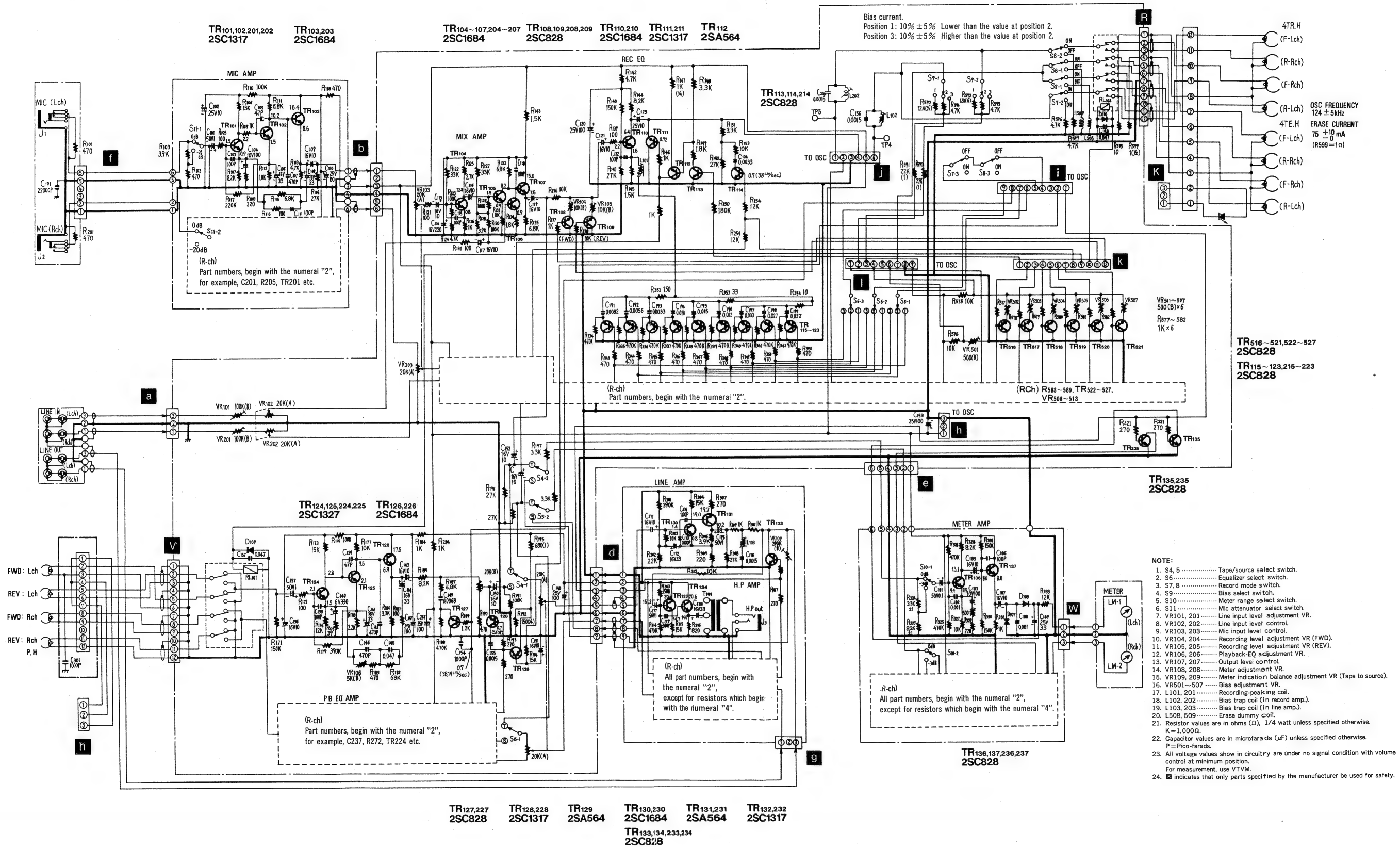
## CIRCUIT BOARD

## Oscillation



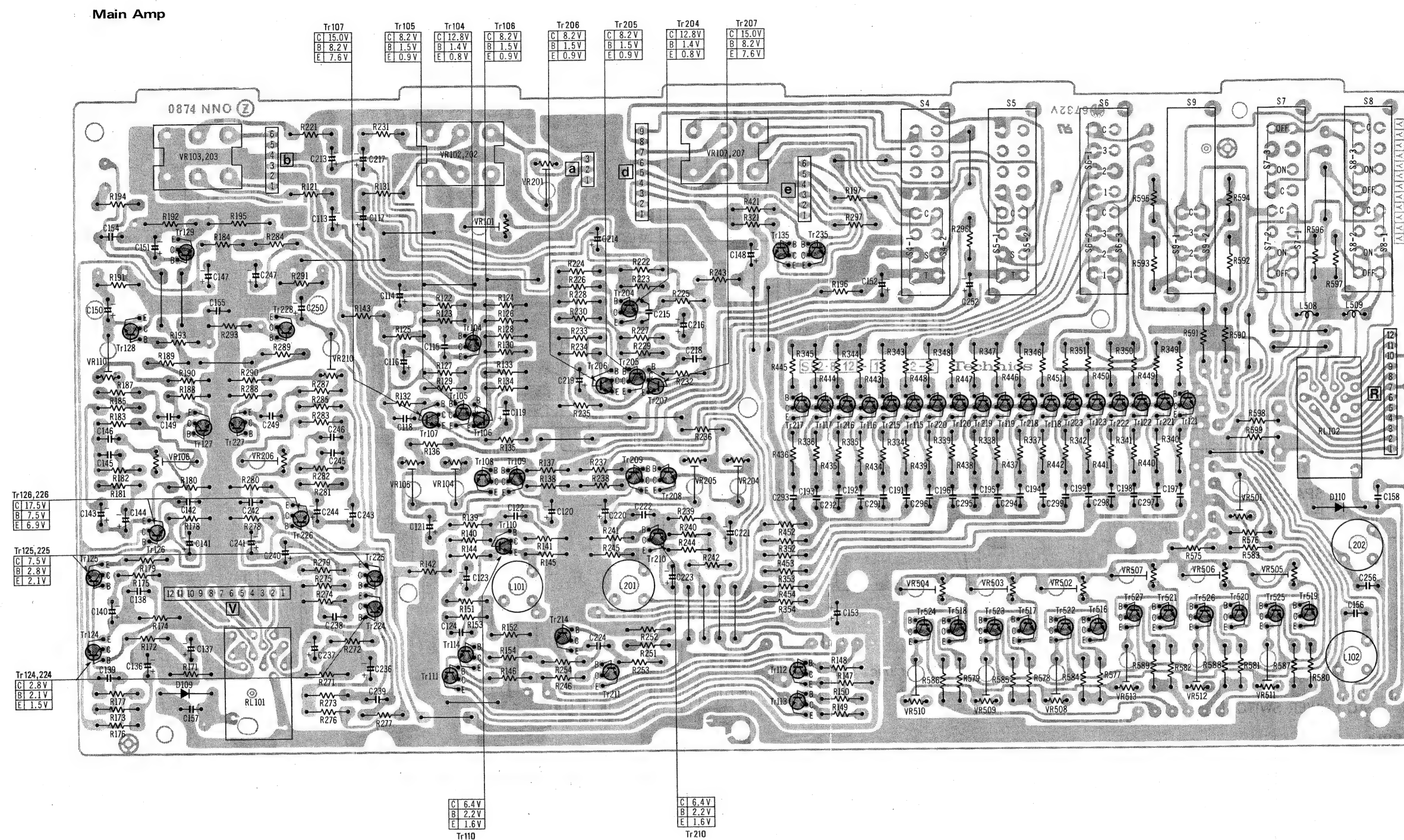
## SCHEMATIC DIAGRAM MODEL RS-1700

## Main Amp Section

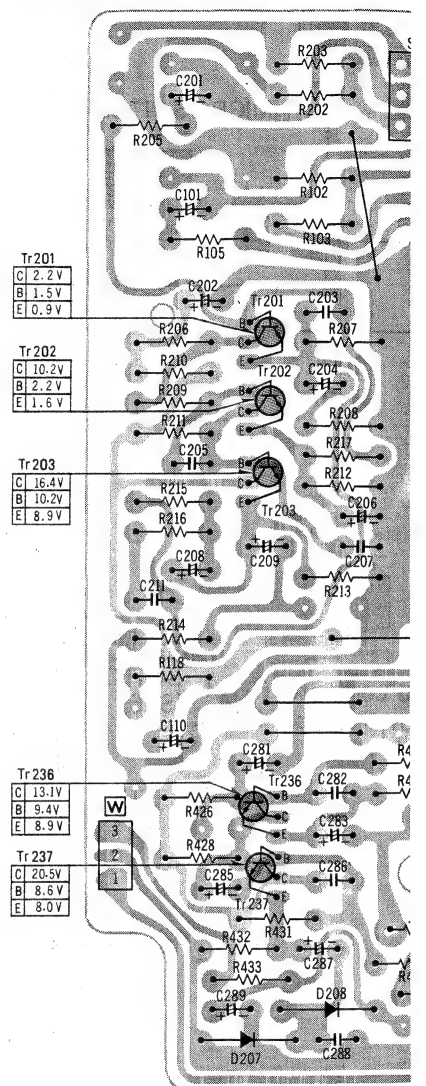




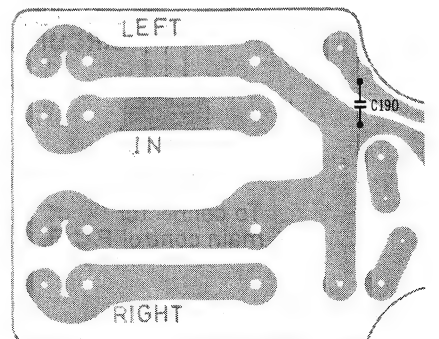
## CIRCUIT BOARD



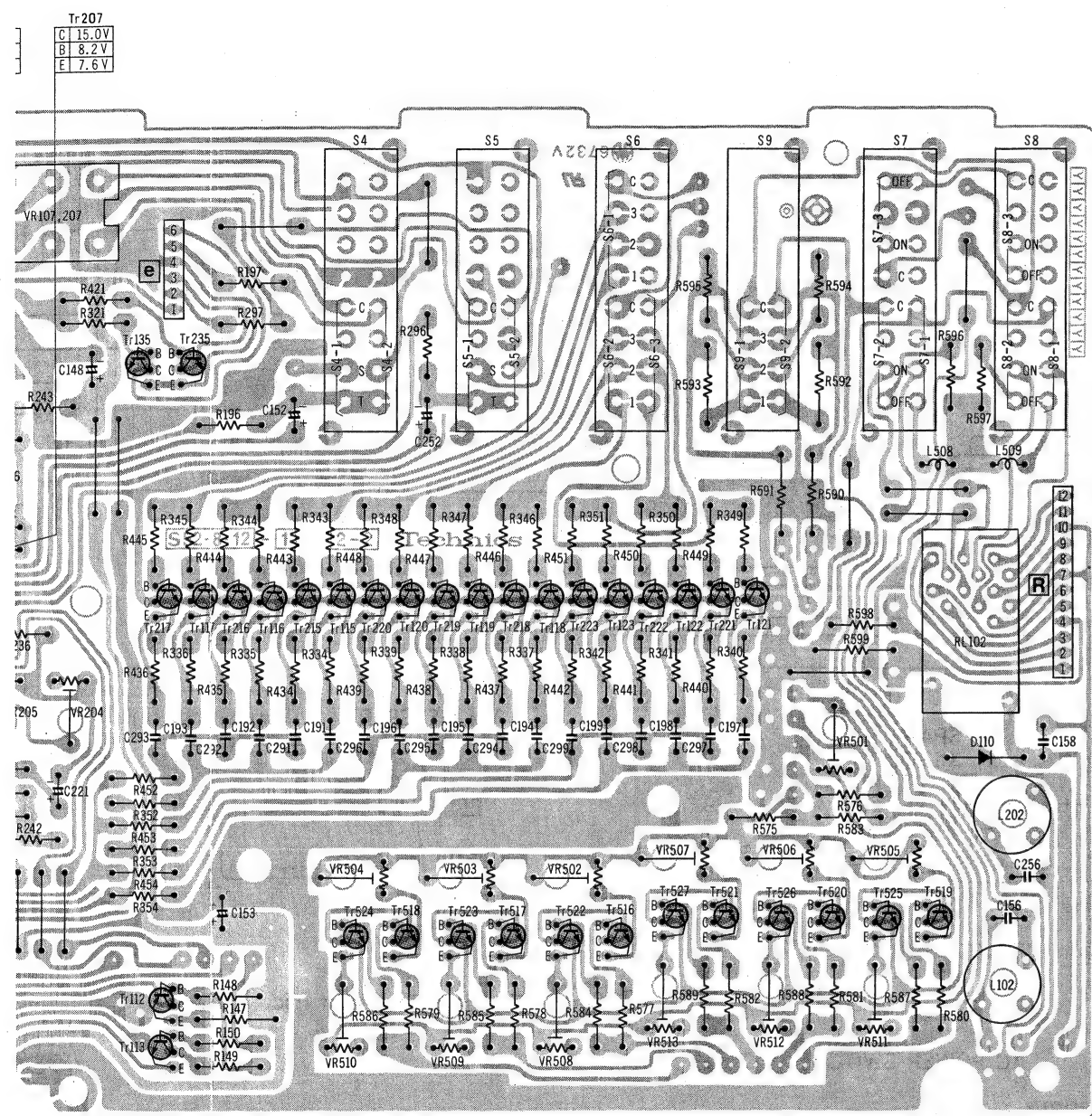
### Mic and Meter Amp



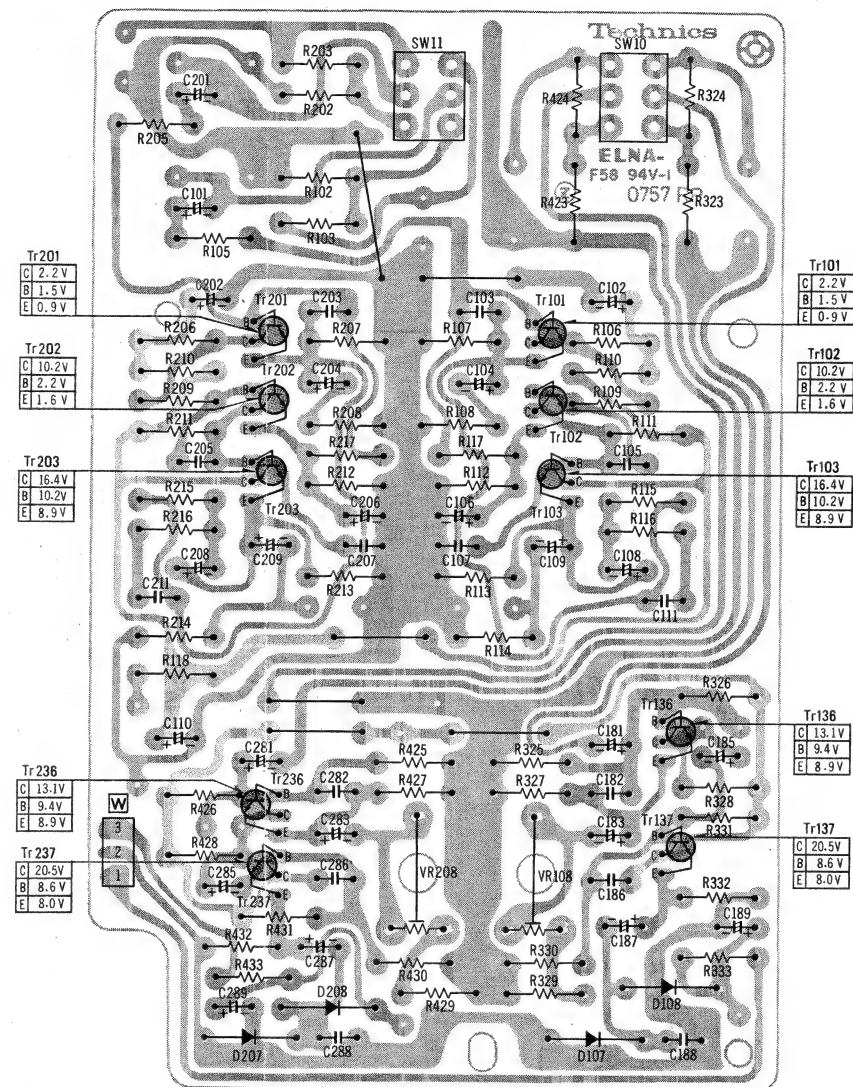
**Jack**



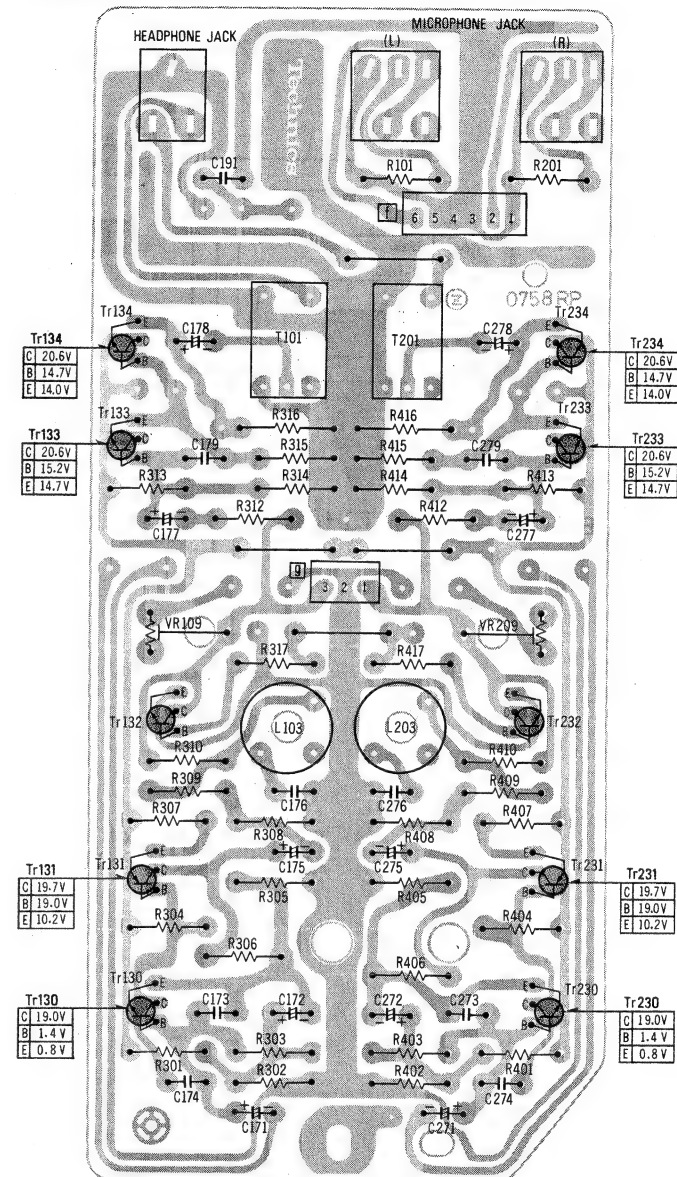




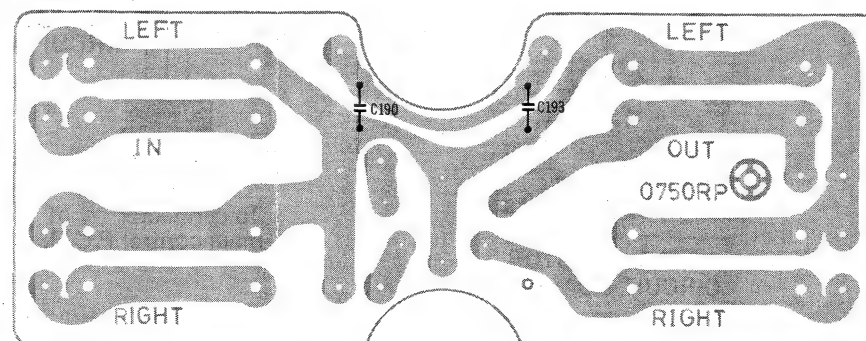
### Mic and Meter Amp



### Line-out Headphone Amp



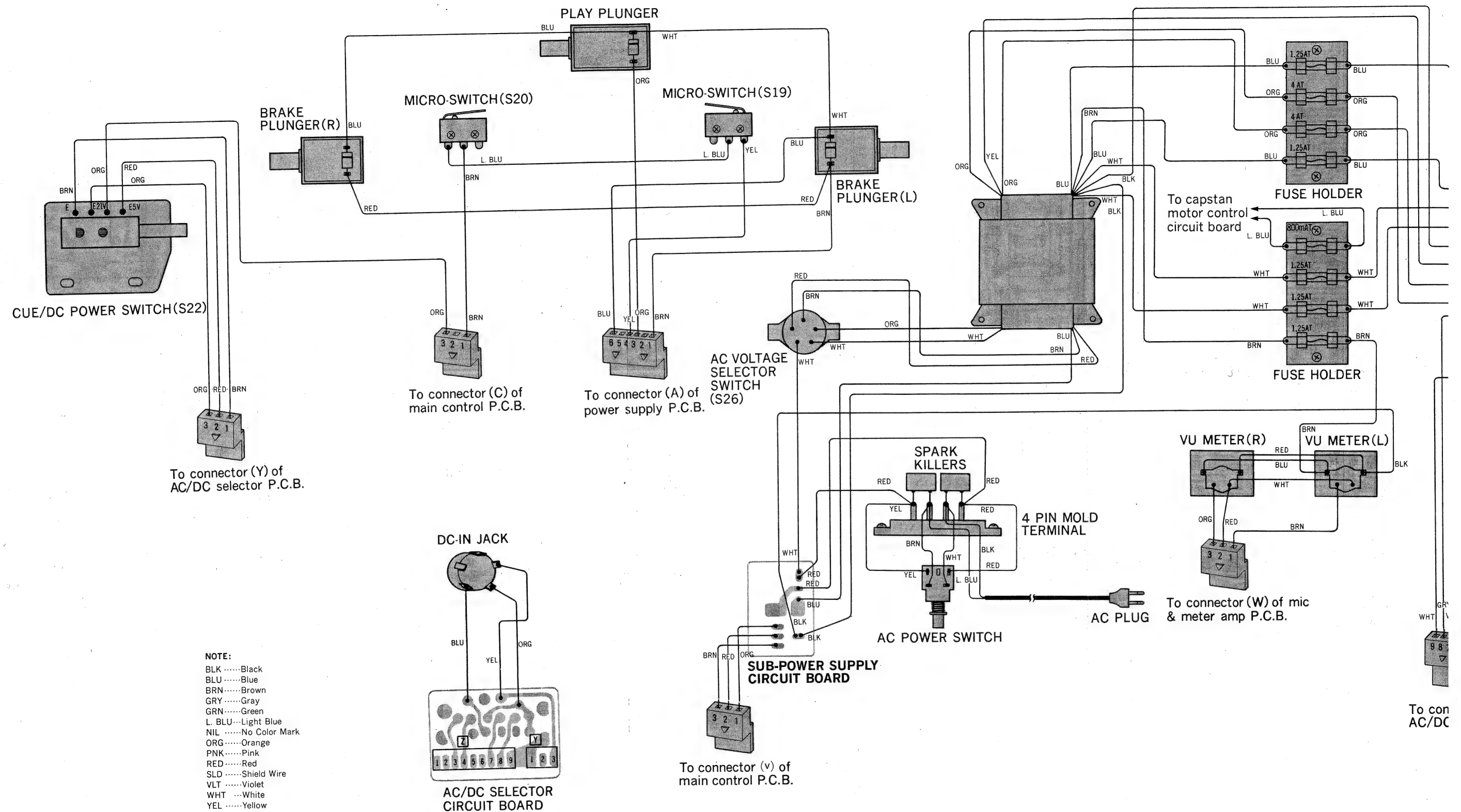
**Jack**



**NOTE:**

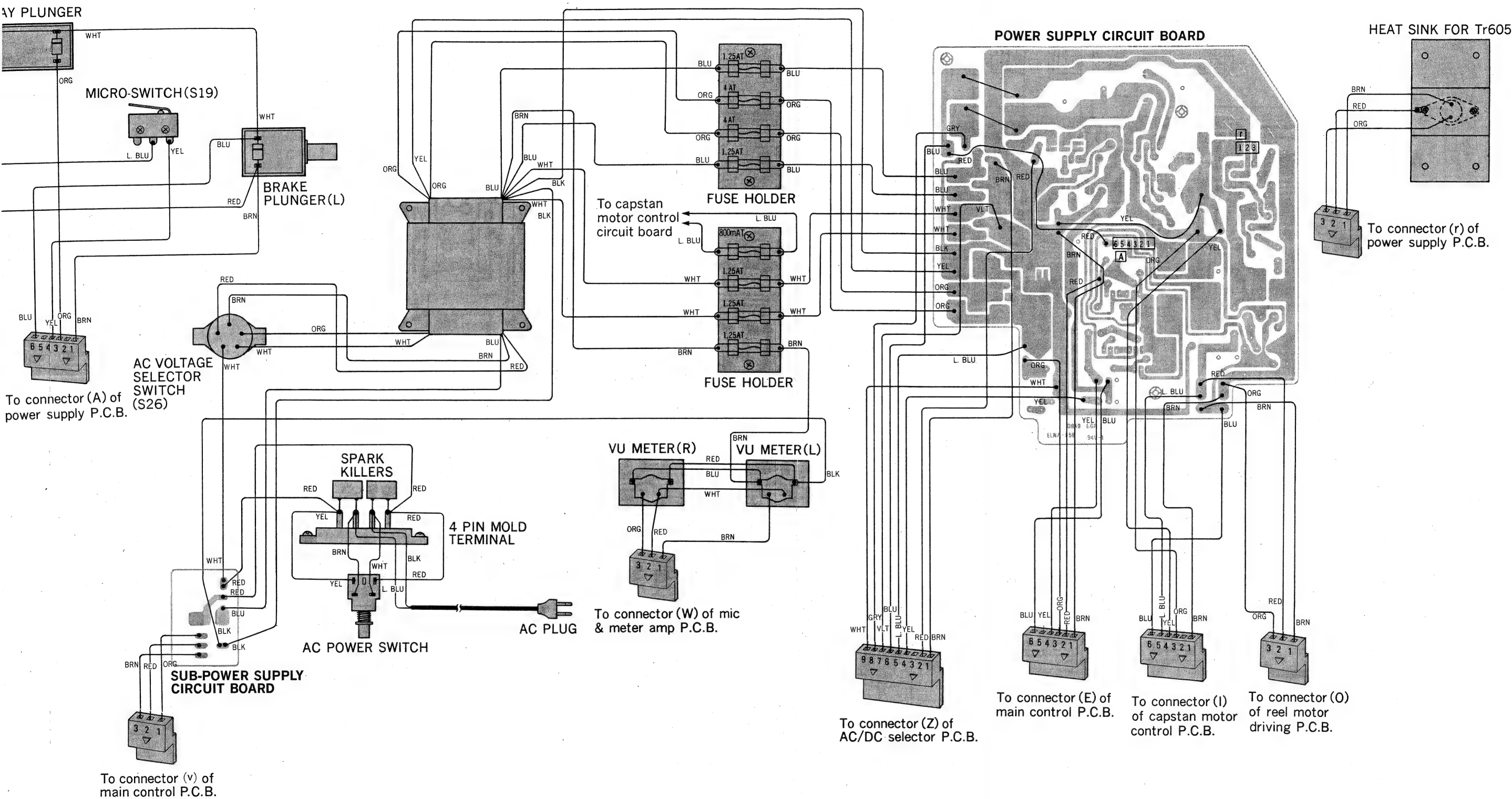
The circuit shown in red on the conductor is B circuit.  
Values indicated in    are DC voltage between the chassis and electrical parts.

# WIRING CONNECTION DIAGRAM MODEL RS-1700

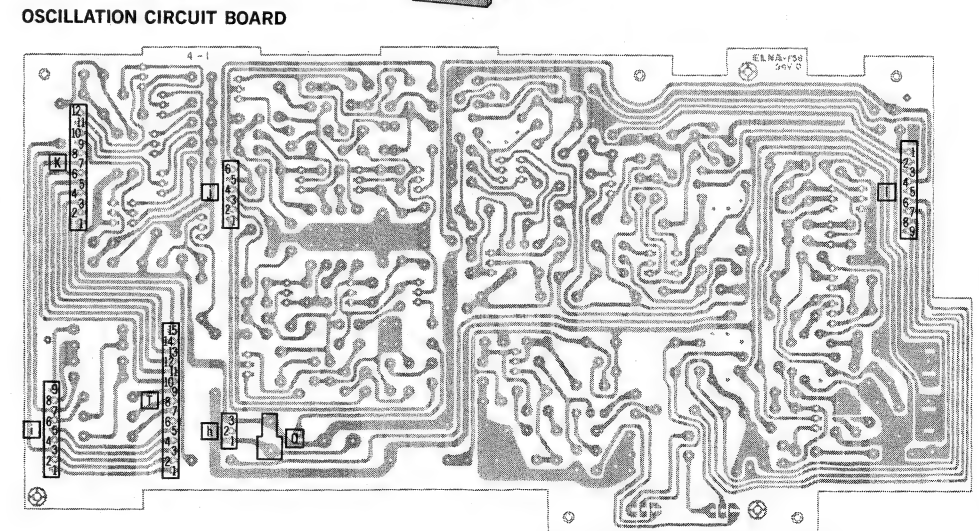
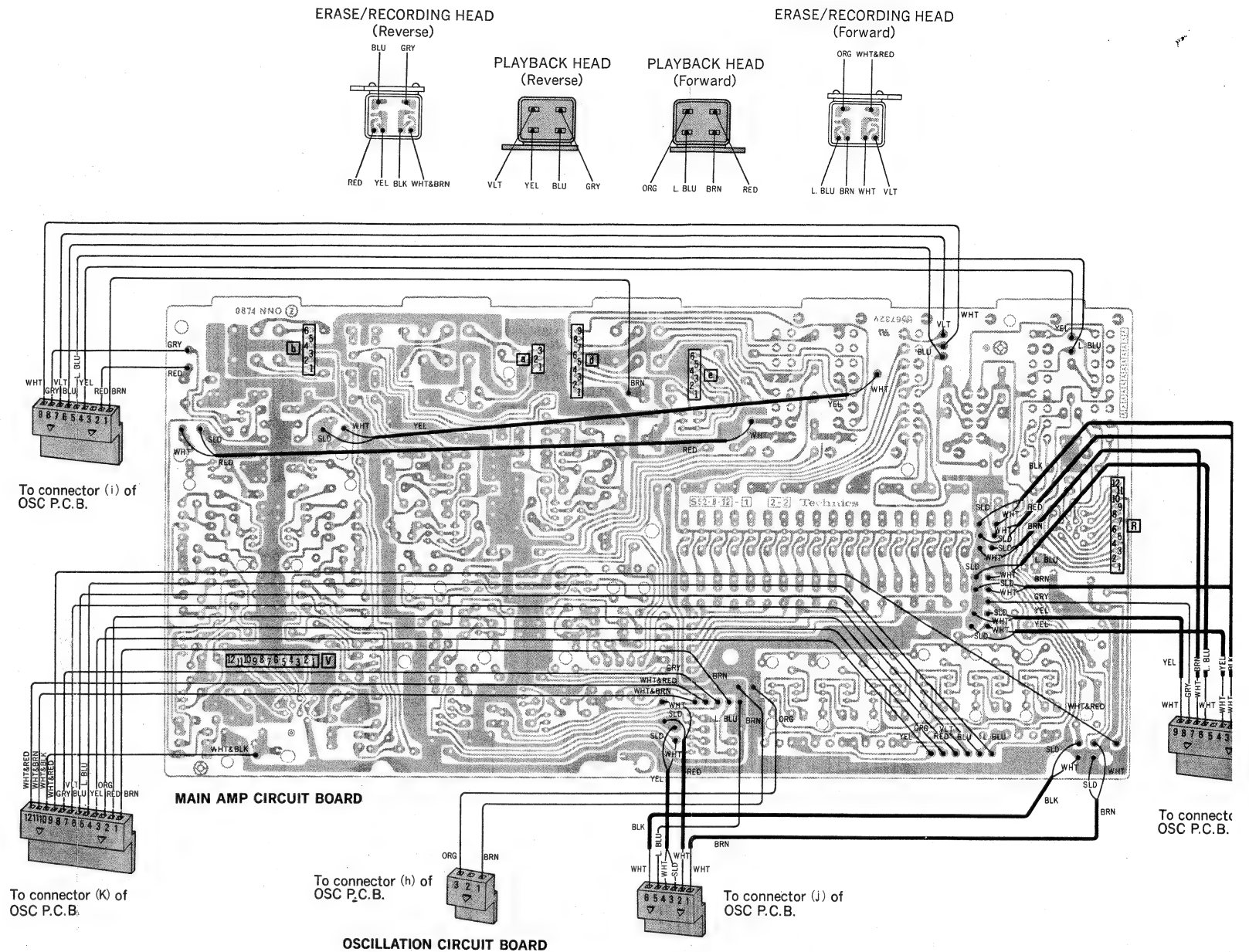
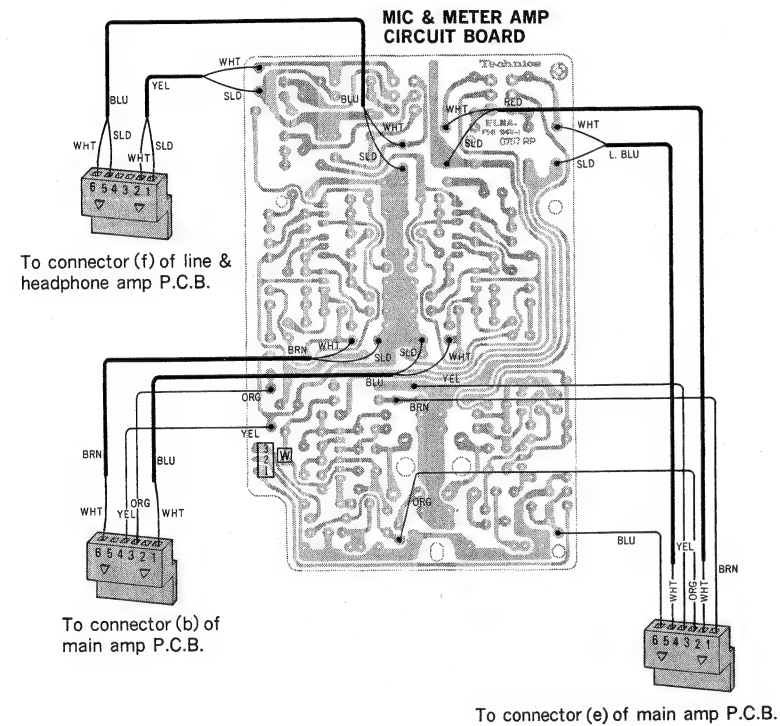
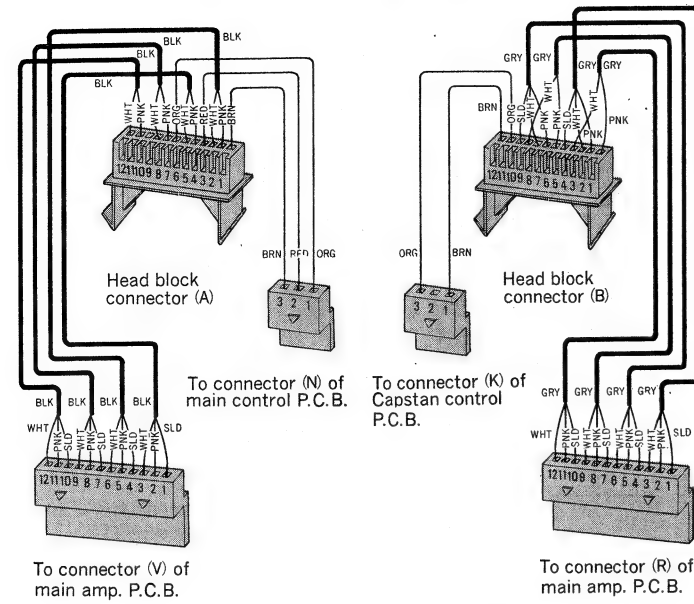




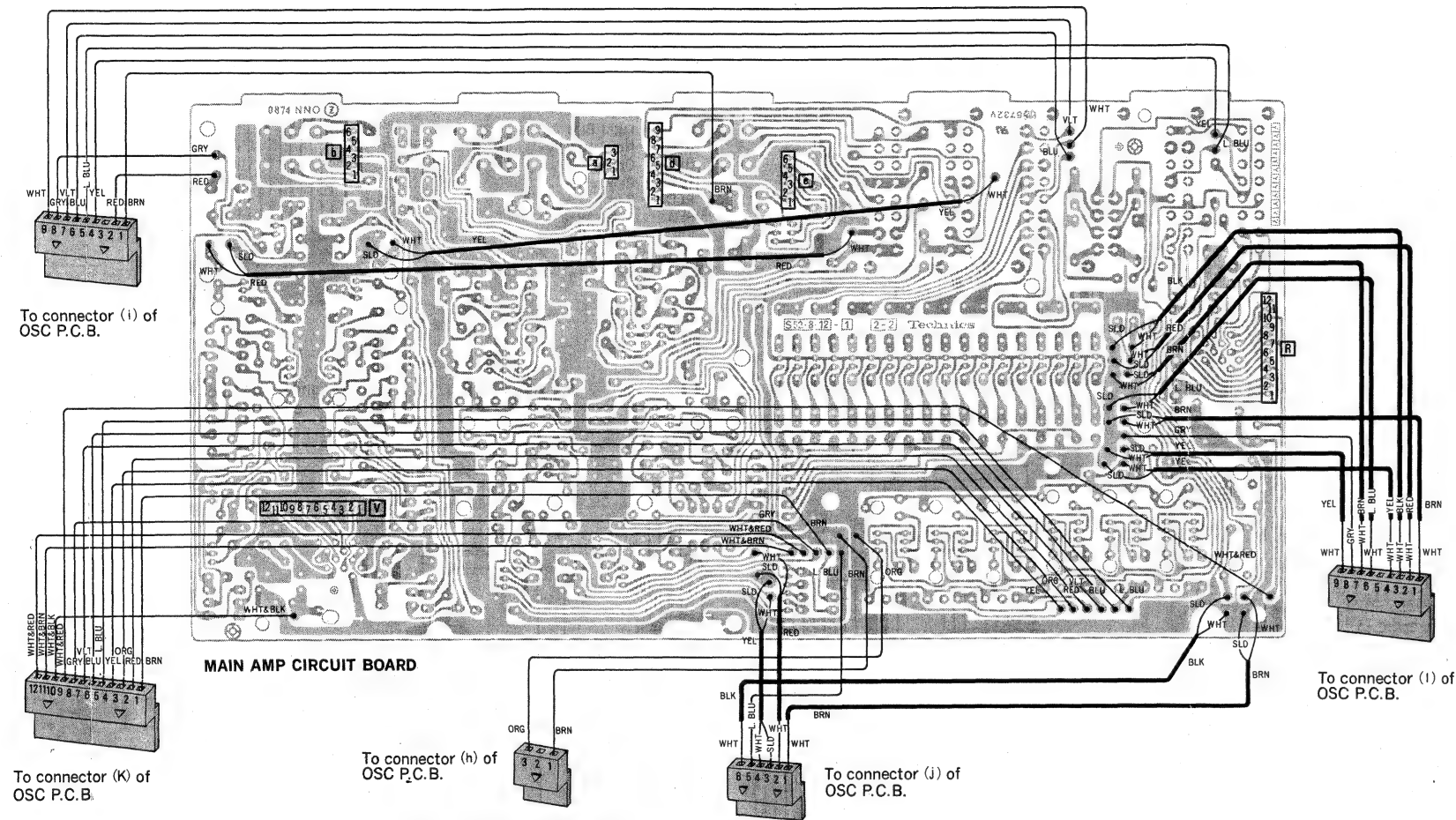
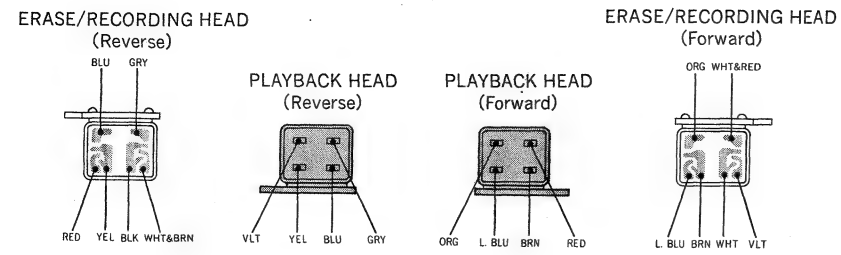
DEL RS-1700



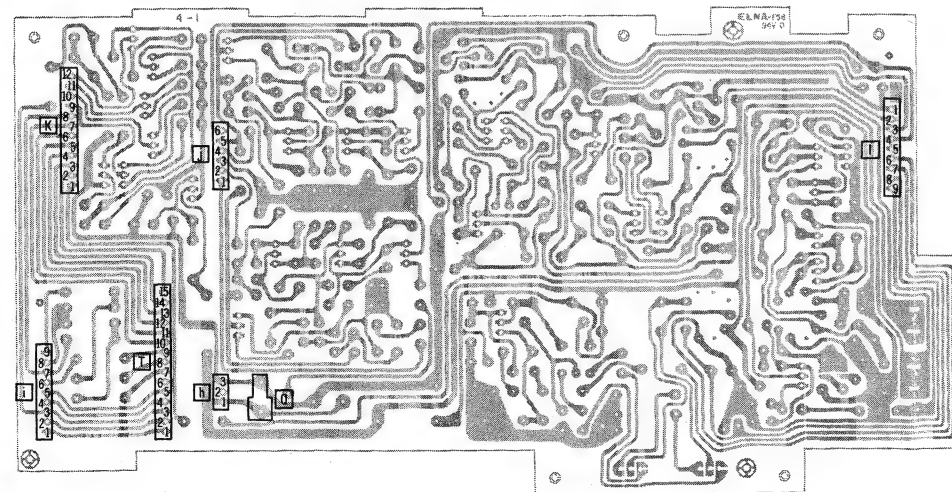
# WIRING CONNECTION DIAGRAM MODEL RS-1700



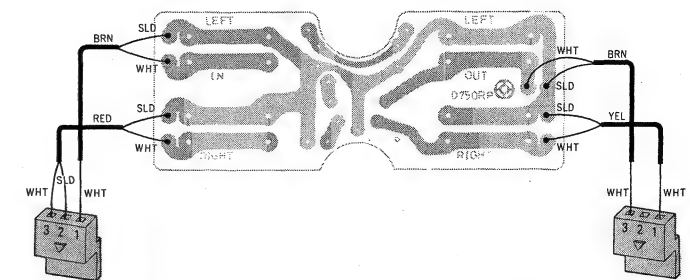
# GRAM MODEL RS-1700



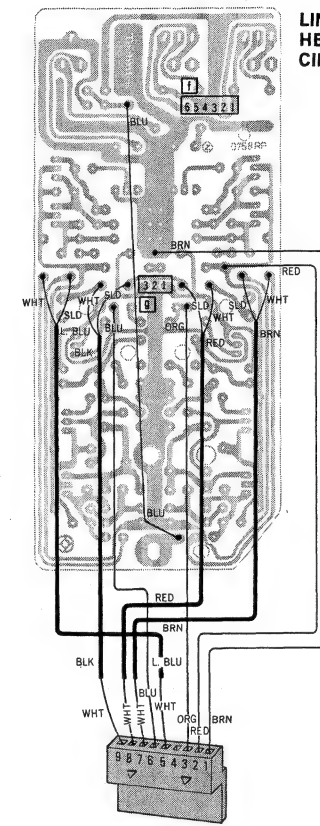
OSCILLATION CIRCUIT BOARD



JACK CIRCUIT BOARD



LINE-OUT & HEADPHONE AMP CIRCUIT BOARD

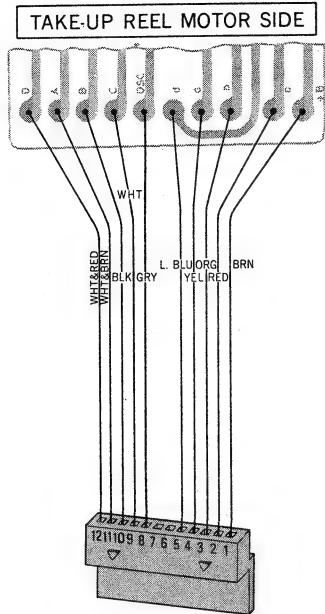


## NOTE:

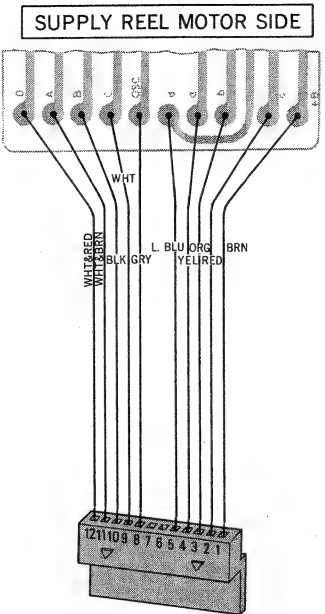
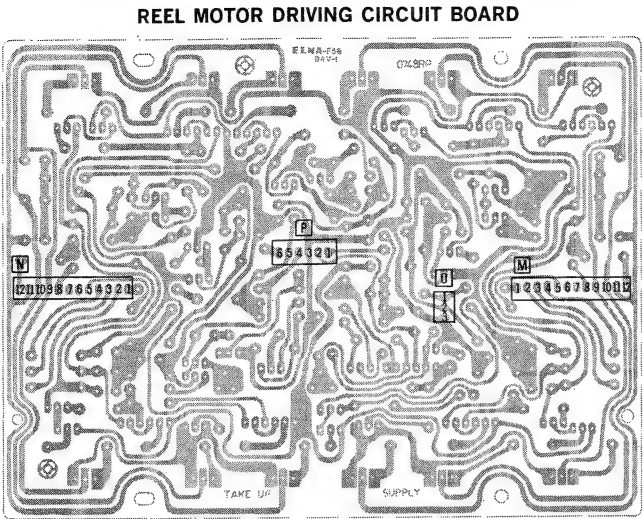
BLK ..... Black  
 BLU ..... Blue  
 BRN ..... Brown  
 GRY ..... Gray  
 GRN ..... Green  
 L. BLU...Light Blue  
 NIL ..... No Color Mark  
 ORG ..... Orange  
 PNK ..... Pink  
 RED ..... Red  
 SLD ..... Shield Wire  
 VLT ..... Violet  
 WHT ..... White  
 YEL ..... Yellow



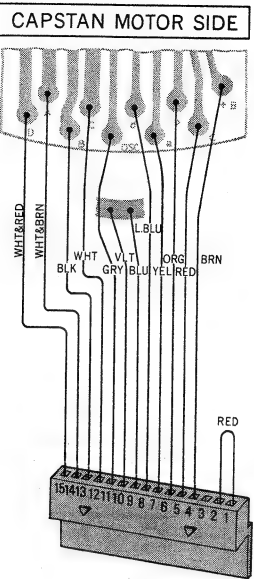
WIRING CONNECTION DIAGRAM MODEL RS-1700



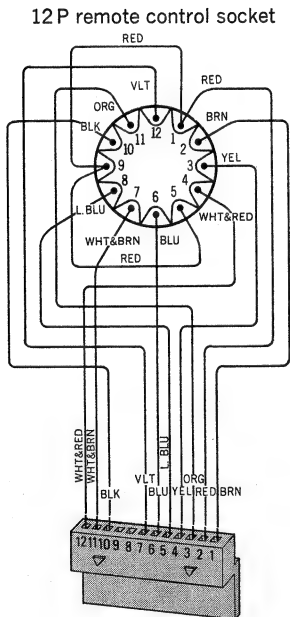
To connector (N) of reel motor driving P.C.B.



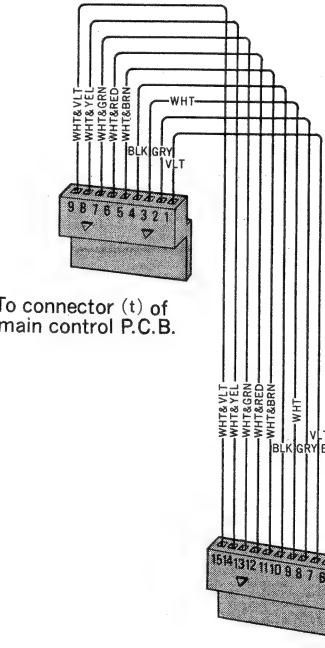
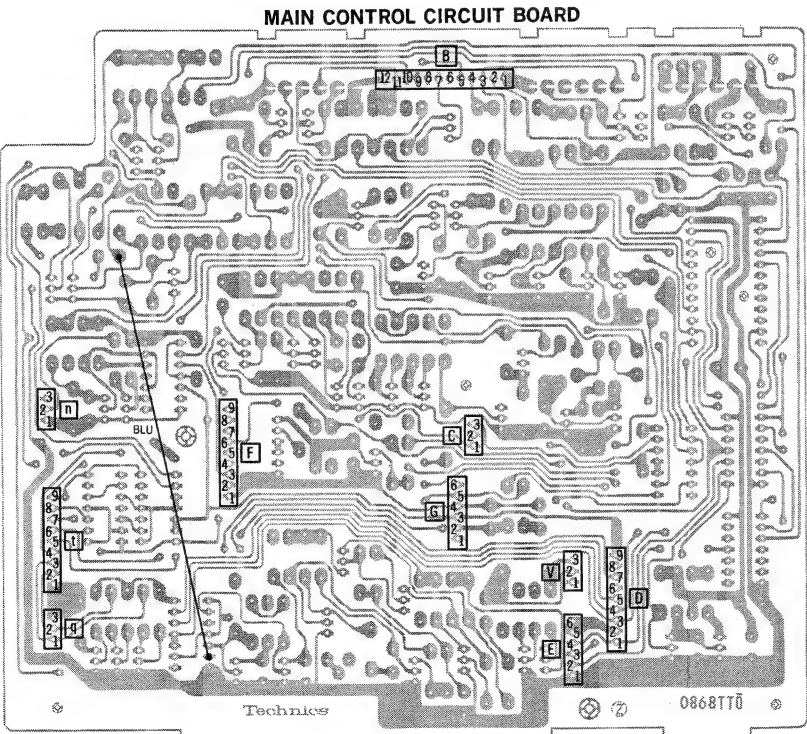
To connector (M) of reel motor driving P.C.B.



To connector (H) of capstan motor control P.C.B.

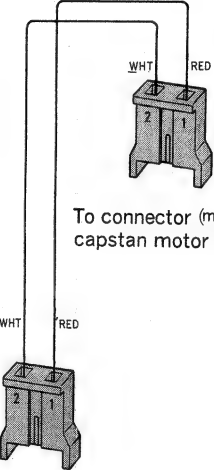


To connector (B) of main control P.C.B.



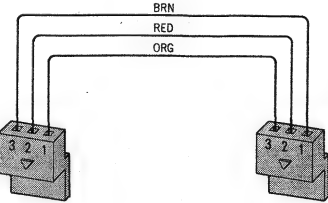
To connector (G) of main control P.C.B.

To connector (m) of capstan motor control P.C.B.



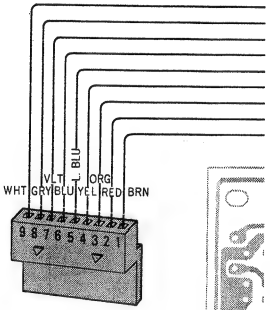
To connector (Q) of OSC P.C.B.

To connector (T) of OSC P.C.B.



To connector (q) of main control P.C.B.

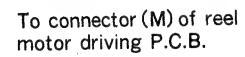
To connector (L) of capstan motor control P.C.B.



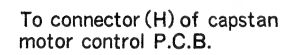
To connector (F) of main control P.C.B.

- NOTE:
- BLK .....Black
  - BLU .....Blue
  - BRN .....Brown
  - GRY .....Gray
  - GRN .....Green
  - L. BLU.....Light Blue
  - NIL .....No Color Mark
  - ORG .....Orange
  - PNK .....Pink
  - RED .....Red
  - SLD .....Shield Wire
  - VLT .....Violet
  - WHT .....White
  - YEL .....Yellow

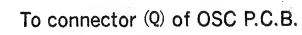
To connector (F) of reel motor driving P.C.B.



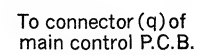
BLK .....Black  
BLU .....Blue  
BRN.....Brown  
GRY .....Gray  
GRN.....Green  
L. BLU.....Light Blue  
NIL .....No Color Mark  
ORG.....Orange  
PNK.....Pink  
RED.....Red  
SLD .....Shield Wire  
VLT .....Violet  
WHT ...White  
YEL .....Yellow



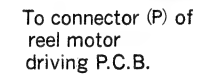
To connector (G) of  
main control P.C.B.



To connector (T) of OSC P.C.B.

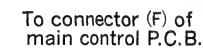


To connector (L) of  
capstan motor control P.C.B.



To connector (J) of  
capstan motor  
control P.C.B.

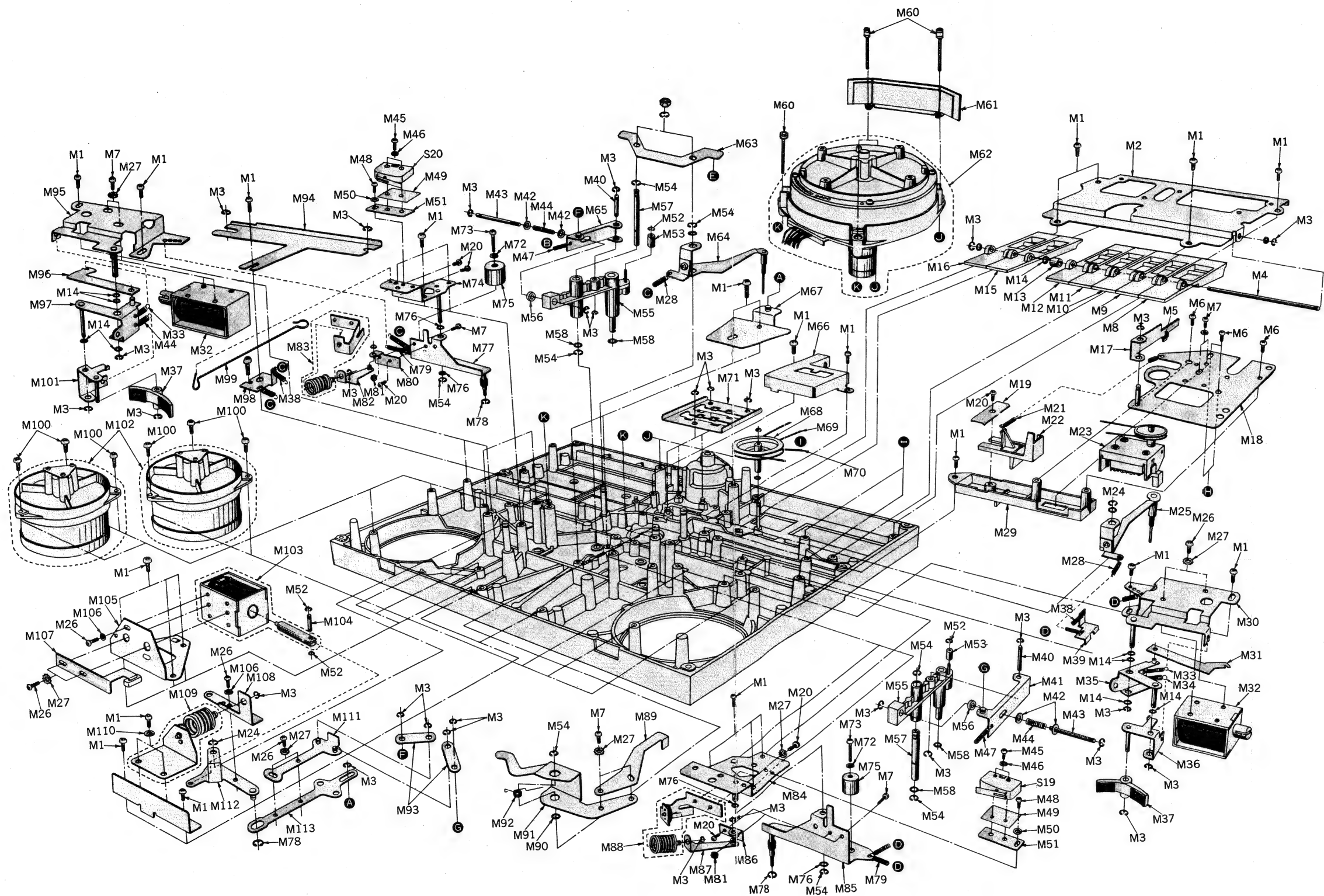
To connector (D) of main control P.C.B.



- To 800 mA fuse
- In power supply section

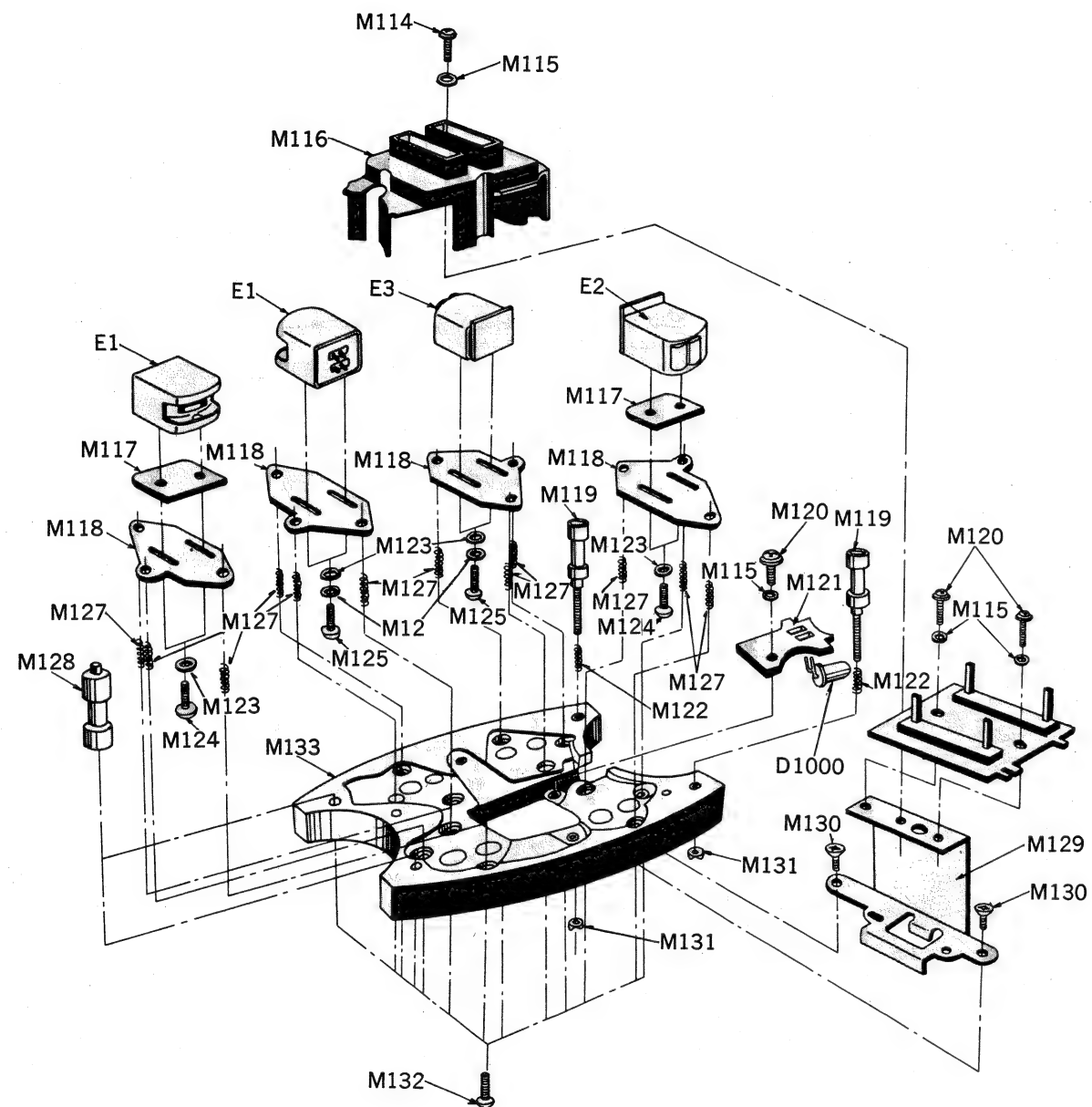
## CAPSTAN MOTOR CONTROL CIRCUIT BOARD

# EXPLODED VIEWS

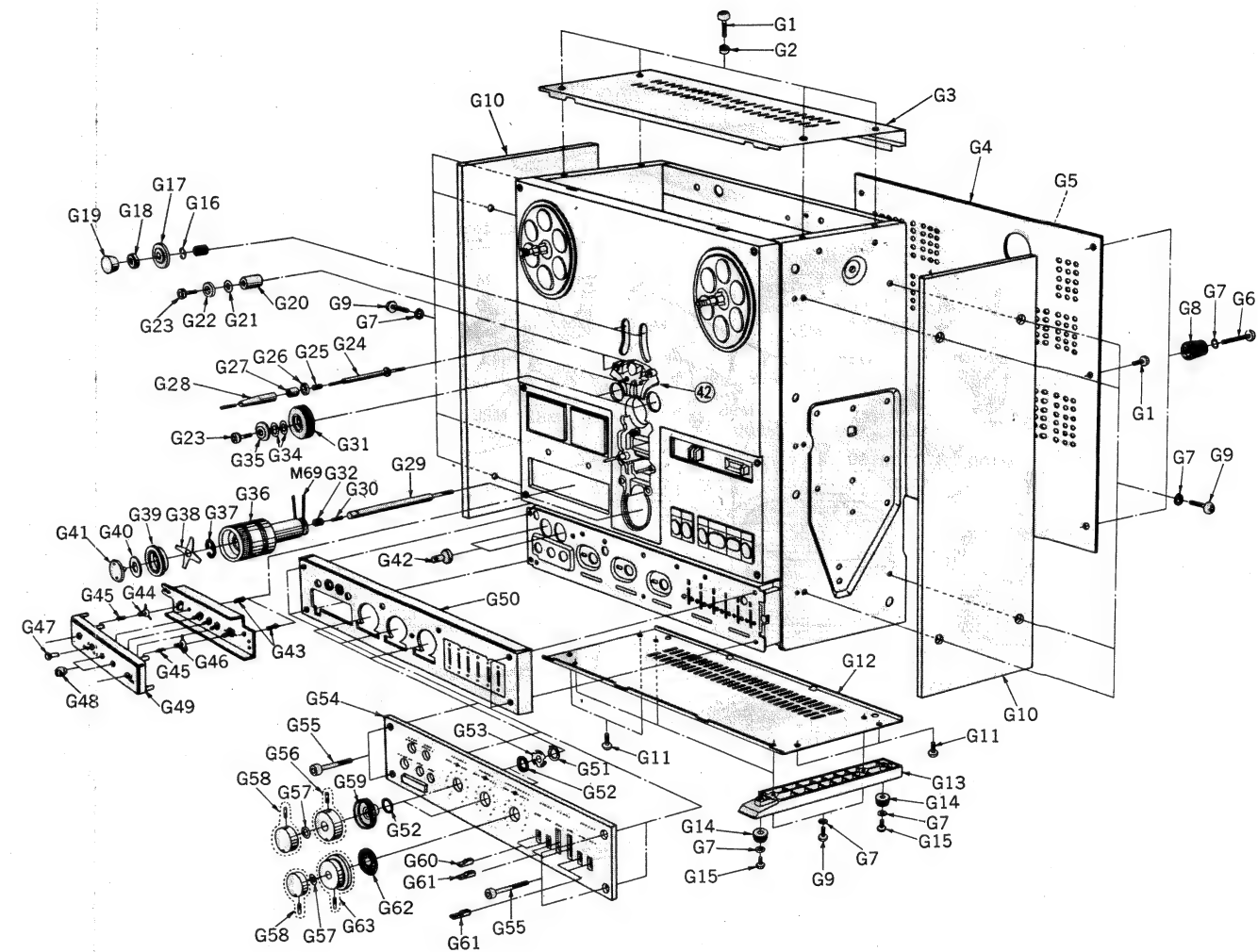




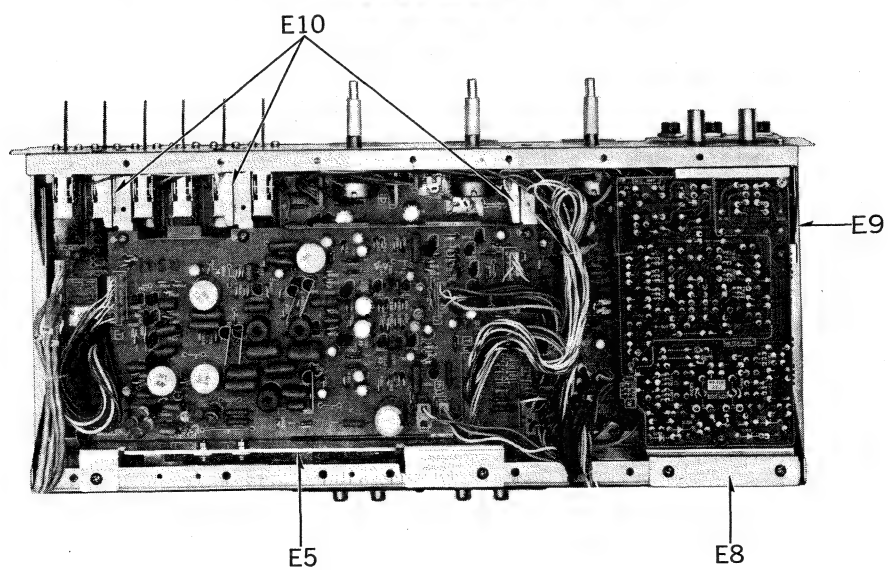
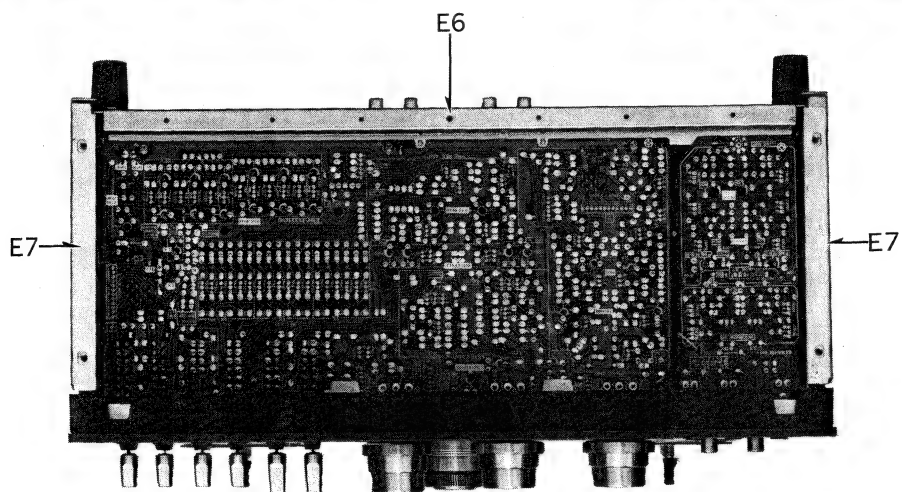
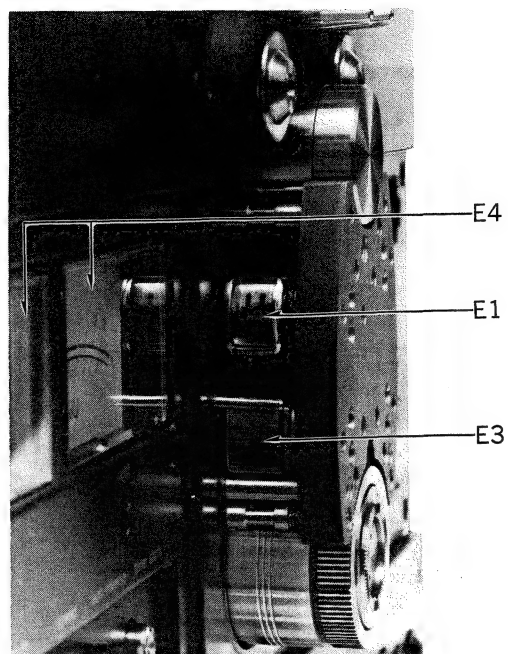
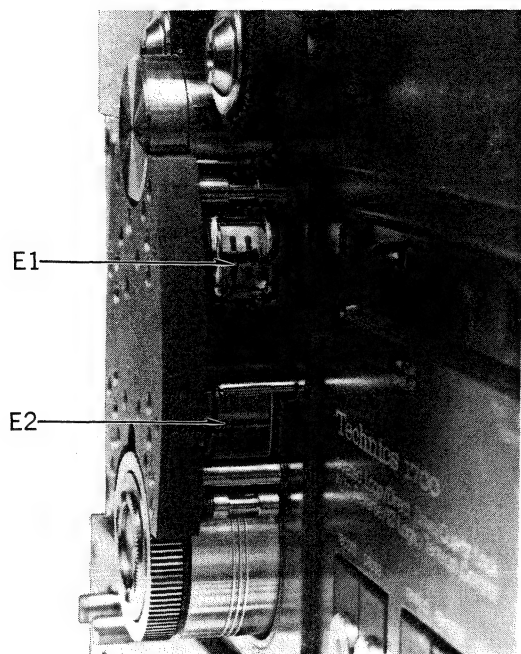
## EXPLODED VIEWS

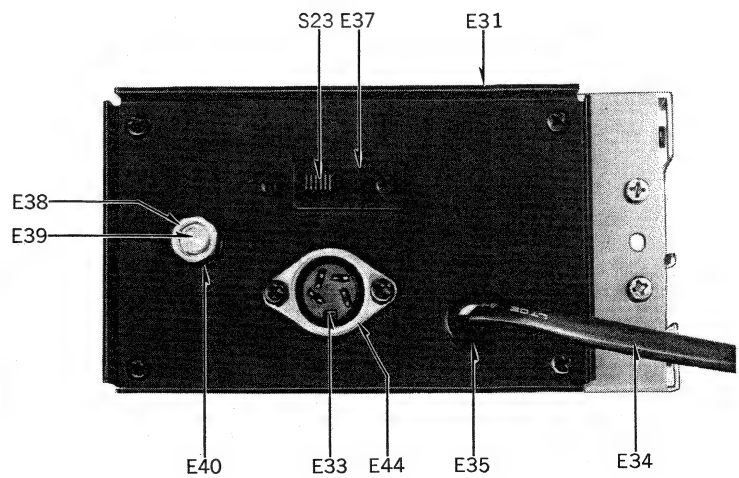
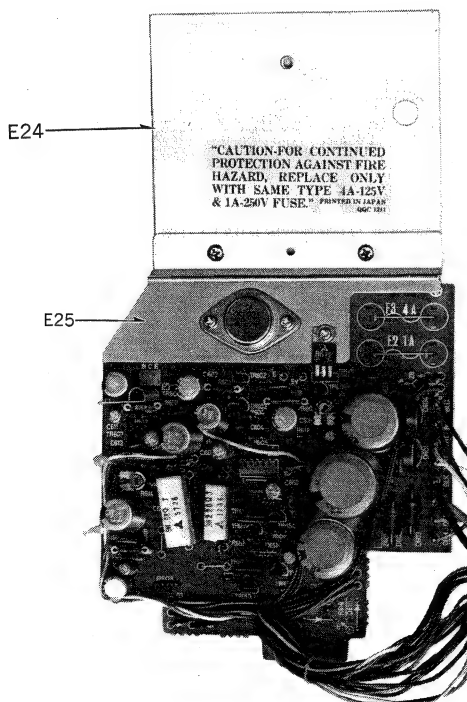
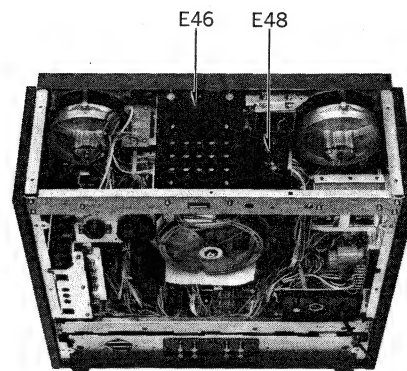
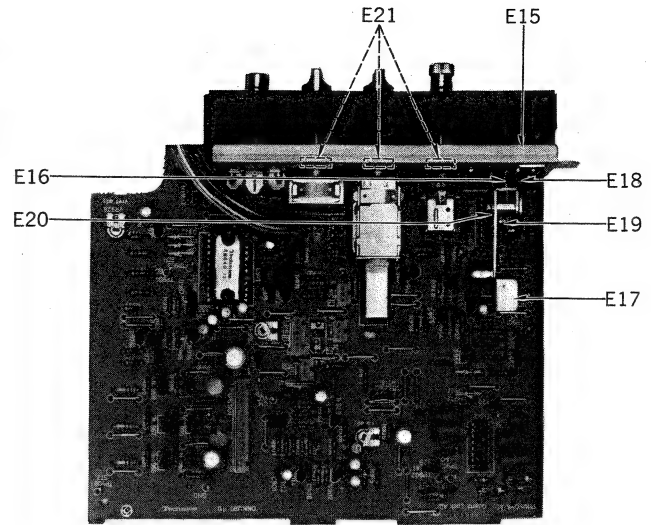
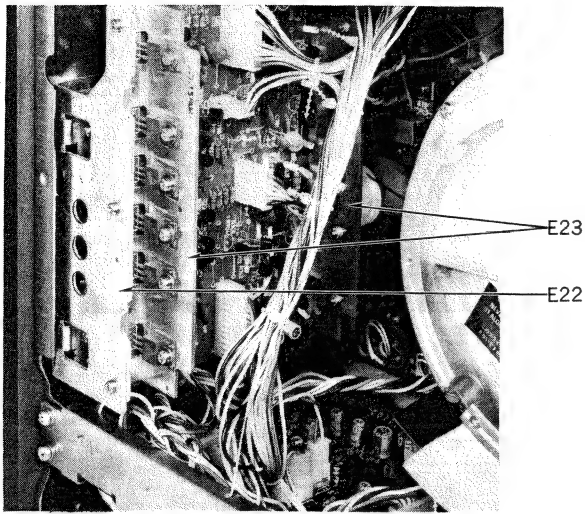
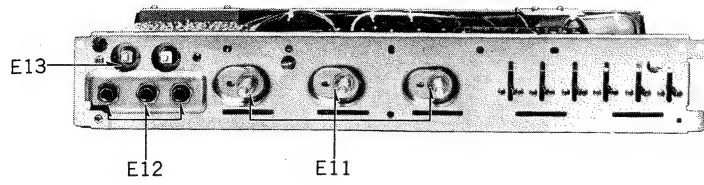


## CABINET PARTS

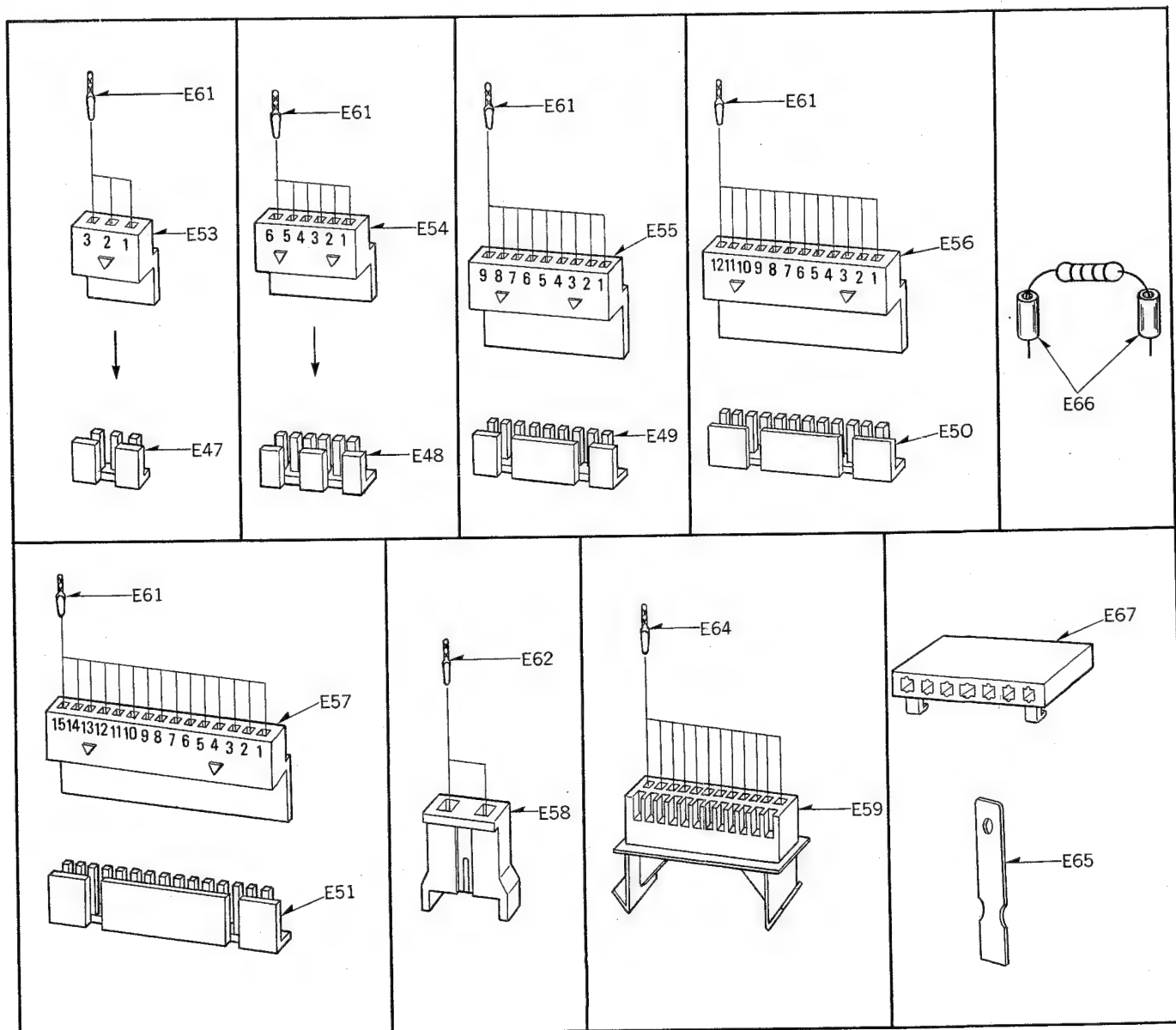
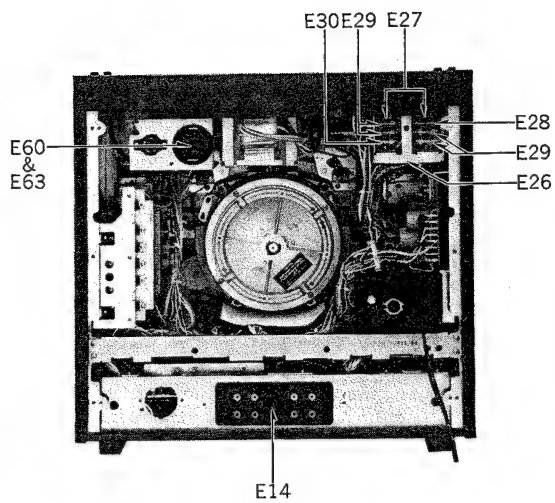
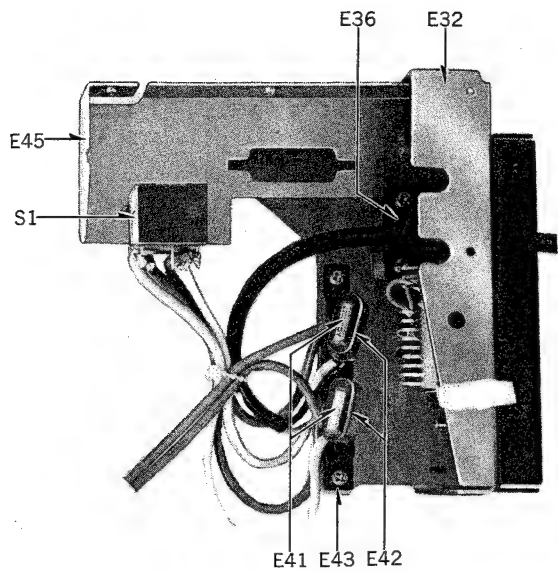


# ELECTRICAL PARTS LOCATION









# Service Manual

## Original

Open Deck

## RS-1700

Vol. 2

### Information:

The RS-1700 Service Manual Vol. 2 is provided for the purposes of measurements and adjustments. Use Vol. 2 together with Vol. 1. The measuring and adjusting methods of RS-1700 are almost the same as those of RS-1500US. Common items are summed up into a list to simplify the manual. So, for details, refer to the RS-1500US Service Manual.



**FOR MEASURE-  
MENTS AND  
ADJUSTMENTS**

### RS-1500U MECHANISM SERIES

### Specifications (Catalog specifications for sales)

Operation: Automatic reverse  
Track system: 4-track 2-channel recording, playback, erasure on both way  
Heads: 6 heads system  
2-record/erasure combination head and 2-playback head  
Motors: 3 direct-drive motors system  
Capstan: Quartz control phase-locked DC brushless servo direct-drive motor  
Reel table: 2-tape tension controlled DC brushless direct-drive motor  
Reel size: 13 cm to 26.5 cm (5" to 10-1/2") outside diameter  
Tape speed: 38 cm/s, 19 cm/s and 9.5 cm/s (15 ips, 7-1/2 ips and 3-3/4 ips) (recording and playback)  
Wow and flutter: 38 cm/s (15 ips); 0.018% (WRMS),  $\pm 0.035\%$  (Peak DIN)  
19 cm/s (7-1/2 ips); 0.03% (WRMS),  $\pm 0.06\%$  (Peak DIN)  
9.5 cm/s (3-3/4 ips); 0.06% (WRMS),  $\pm 0.12\%$  (Peak DIN)  
Speed deviation:  $\pm 0.1\%$  at 38 cm/s (15 ips)  
Speed fluctuation: 0.05% at 38 cm/s (15 ips)  
Frequency response: 38 cm/s (15 ips); 30~30,000 Hz  $\pm 3$  dB (rec. level = -10 dB from 0 VU)  
19 cm/s (7-1/2 ips); 20~25,000 Hz  $\pm 3$  dB (rec. level = -20 dB from 0 VU)  
9.5 cm/s (3-3/4 ips); 20~15,000 Hz  $\pm 3$  dB (rec. level = -20 dB from 0 VU)  
Signal-to-noise ratio: Weighted (ASA-A curve) 1 kHz (3% THD) (185 nWb/m + 6 dB)  
Recording level: 38 cm/s (15 ips); 68 dB 62 dB  
19 cm/s (7-1/2 ips); 68 dB 62 dB  
9.5 cm/s (3-3/4 ips); 67 dB 60 dB  
Distortion (THD): Measured via tape at 400 Hz (at any speed)  
Less than 0.8% (0 VU)  
Less than 2.0% (185 nWb/m + 6 dB)  
Channel separation: Better than 50 dB  
Erasing ratio: Better than 65 dB (rec. level = +10 dB at 1 kHz)  
Pitch control:  $\pm 6\%$  (recording and playback)  
Time counter accuracy:  $\pm 1\%$  at 38 cm/s (15 ips)  
Fast winding time: 150 sec. for 762 m (1.5 mil, 2500 feet) tape  
Auto-reverse sensing: Photoelectric

Auto-stop sensing: Photoelectric, Tension roller switches or Take-up reel table servo control system  
Recording bias: 120 kHz  
Bias level: BIAS selector at "1" 90%  
at "2" 100%  
at "3" 110%  
Equalization: NAB standard position "2" of "EQ" and "BIAS" selector set for Scotch #207 tape  
Recording level calibration: Referenced to 185 nWb/m  
Inputs: MIC; Unbalanced phone type jack sensitivity 0.25 mV (-72 dB), input impedance 4.7 K $\Omega$  (at 0 VU, Mic. level control at maximum position) 2.5 mV (-52 dB)/4.7 K $\Omega$  with 20 dB Mic.  
Attenuation switch on. overload margin 55 dB (75 dB with 20 dB Mic. Att.) applicable microphone impedance 400 $\Omega$ ~10 K $\Omega$   
LINE; Unbalanced phono type jack sensitivity 60 mV (-24 dB), input impedance 150 K $\Omega$  overload margin = infinity (line input connected to LINE IN level control before pass through the amplifier)  
THROUGH OUT; Same as LINE IN (connected in parallel to LINE IN)  
Outputs: LINE; 2-pair of unbalanced phone type jack output level 0.55 V at 0 VU (output level control at "8")  
0.775 V or more at output level control maximum output impedance less than 3 K $\Omega$  load impedance 22 K $\Omega$  over  
HEADPHONE; Stereo phone type jack output level 80 mV at 0.55 V line output load impedance 8 $\Omega$   
Power requirements: AC 110/125/220/240 V, 50/60 Hz  
DC 24 V, 4.9 A peak (with optional battery adaptor RP-086)  
Power consumption: 160 W  
Weight: 25.7 kg, (56 lbs 9 oz)  
Dimensions (W x H x D): 45.6 cm x 44.6 cm x 25.8 cm (18" x 17-1/2" x 10-1/8")

Specifications based on use of Technics RT-10B218 (Scotch #207) tape.  
Specifications are subject to change without notice.

**Matsushita Electric Trading Co., Ltd.**  
P.O. Box 288, Central Osaka Japan

2505

## I. TEST PREPARATION AND TEST INSTRUMENTS

1. Prepare test instruments which are equivalent in accuracy to those shown below.
2. The test instruments should be inspected and corrected by specialists once every 6 months, because a long period of use without maintenance may increase errors in indication.
3. Warm-up the test instruments for 30 minutes and the set to be measured for 10 minutes before taking the measurements. If not, there may arise an error or difference between the initial value and the stabilized value measured after "aging".
4. Test instruments

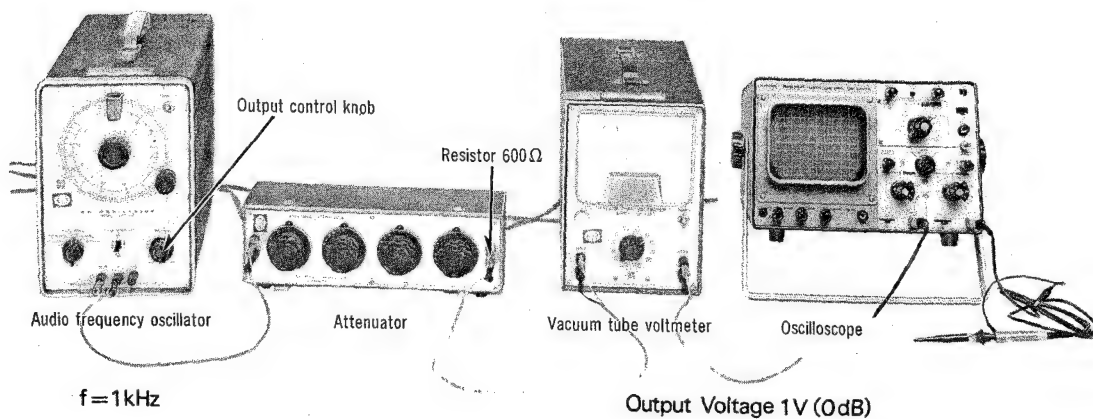
The instruments required are the same as those for RS-1500US.

Refer to RS-1500US Service Manual Vol. 2 P6—P8.

---

## II. MEASUREMENT CONDITIONS

1. Standard measurement conditions
  - \* Ambient temperature: 10—30°C (50—86°F)
  - \* Ambient humidity: 30—90% RH
  - \* Power voltage accuracy:  $\pm 3\%$
2. Position of tape recorder
  - \* When measuring, place the unit under test in a horizontal position.
3. Oscillator output voltage adjustment
  - \* Connect the equipments as shown in the following and adjust the oscillator output control for 1V ( $f = 1$  kHz) through the attenuator while keeping the attenuator at 0dB.
  - \* When supplying a signal to the tape recorder amplifier, adjust the input level using the attenuator.





### III. TEST TAPE

#### Test tape life

The more frequently the test tape is used, the more the tape characteristics will deteriorate (e.g. lowering of recorded level, worsening of frequency response particularly in high-frequency range, and an increase in wow due to tape elongation) until measured values become unreliable. Even in such a case when a tape is not used, but stored, for a long period of time, tape shows deterioration in performance because of self damagenetization due to storage conditions, etc.

Please refer to the tape life specification and take care not to use a tape longer than its rated life when servicing.

Frequency of use: Not more than 20 times for each tape length.

Storage period: Not more than 60 months.

#### \* Test tape

PARTS NO.	PARTS NAME	SPECIFICATIONS	REMARKS
QZZOF380EX	Standard recording level, azimuth and frequency response tape		<ul style="list-style-type: none"> <li>Tape speed: 38 cm/s</li> <li>Full track:</li> <li>400 Hz 0 dB,</li> <li>20 kHz—31.5 Hz</li> <li>-10 dB</li> </ul>
QZZOF190EX	Standard recording level, azimuth and frequency response tape		<ul style="list-style-type: none"> <li>Tape speed: 19 cm/s</li> <li>Full track:</li> <li>400 Hz, 0 dB</li> <li>16 kHz—31.5 Hz</li> <li>-10 dB</li> </ul>
QZZOW380EX	Wow and tape-speed tape		<ul style="list-style-type: none"> <li>Tape speed: 38 cm/s</li> <li>Full track: 8 (min)</li> <li>3 kHz 0 dB</li> </ul>
QZZOW190EX	Wow and tape-speed tape		<ul style="list-style-type: none"> <li>Tape speed: 19 cm/s</li> <li>Full track: 8 (min)</li> <li>3 kHz 0 dB</li> </ul>
QZZORA218	Reference blank tape		<ul style="list-style-type: none"> <li>Unrecorded tape (550m)</li> </ul>

# MEASUREMENT AND ADJUSTMENT

## RS-1700

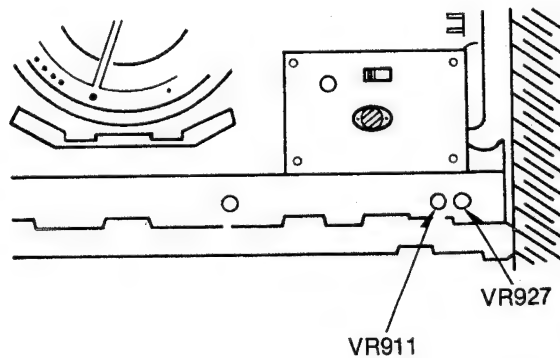
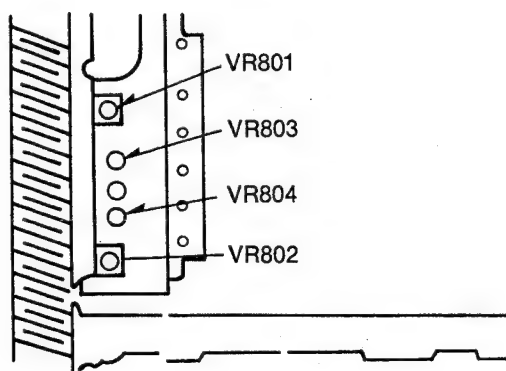
For measurement and adjustment method, there is no great difference from that for Model RS-1500US. Therefore please refer to the Service Manual Vol. 2 of RS-1500US, RS-1506US.

Item	Specification	Measurement Point	Adjustment Part	Remarks												
<b>Mechanism Section</b> Please refer to Service Manual Vol. 2 (P2—P20) of RS-1500US, RS-1506US.																
Pressure Roller position	Symmetrical left and right with relation to the Capstan	_____	Screw (A) and (B) (Refer to fig. 3 in the Vol. 2 of RS-1500US)													
Cue lever	Same as RS-1500US															
Pressure or Pressure Roller	900 ± 100 gr	_____	Position of P. Roller Plunger													
Stopper Position	Same as RS-1500US															
Height of Pressure Roller	Same as RS-1500US															
Braks	Stronger direction: 470 ± 70 gr Weaker direction: 140 ± 25 gr	_____	Brake plunger	Specified with 115 mm of diameter reel.												
Tension Roller height	Same as RS-1500US															
Reel Table height																
Tape Guide	Refer to page 12 of this book.															
Tape Tension	Takeup torque: 65 ± 5 gr Bake tension: 75 ± 5 gr  <b>FWD mode Tape speed: 19 cm/s</b> <table><tr><td>Check point</td><td>I<sub>T</sub></td><td>I<sub>S</sub></td></tr><tr><td>with 10" reel tape</td><td>3.8V</td><td>3.2V</td></tr><tr><td>with 7" reel tape</td><td>2.45V</td><td>1.9V</td></tr><tr><td>adjustment part</td><td>VR802</td><td>VR801</td></tr></table>			Check point	I <sub>T</sub>	I <sub>S</sub>	with 10" reel tape	3.8V	3.2V	with 7" reel tape	2.45V	1.9V	adjustment part	VR802	VR801	Use a full wound tape I <sub>T</sub> : for Takeup I <sub>S</sub> : for Back-tension
Check point	I <sub>T</sub>	I <sub>S</sub>														
with 10" reel tape	3.8V	3.2V														
with 7" reel tape	2.45V	1.9V														
adjustment part	VR802	VR801														

Item	Specification	Measurement Point	Adjustment Part	Remarks
	REV mode Tape speed: 19 cm/s			I <sub>T</sub> : for Back-tension I <sub>S</sub> : for Takeup
	Check point	I <sub>S</sub>	I <sub>T</sub>	
	with 10" reel tape	3.8V	3.2V	
	with 7" reel tape	2.45V	1.9V	
	adjustment part	VR803	VR804	

Adjustment of  
Auto-reverse  
Detection circuit

Adjust VR1 so that the wave form of output signal from a photo-transistor  
becomed sharp. (Refer to page 14)

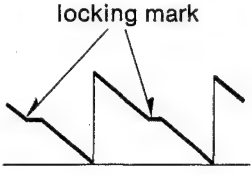


Tape speed  
and  
wow & flutter

Please refer to Servic Manual Vol. 2 (P19—P20) of RS-1500US, RS-1506US.

Tape Speed (cm/s)	Speed Deviation $\frac{f-3000}{3000} \times 100(\%)$	Speed Fluctuation $\frac{f_1-f_2}{3000} \times 100(\%)$	Wow & Flutter		Pitch Control (%)
			JIS WRMS (%)	DIN W/P-P (%)	
38	±0.10	0.10	0.018	±0.035	±6
19	±0.15	0.15	0.03	±0.08	±6
9.5	±0.20	0.20	0.06	±0.16	±6



Item	Specification	Measurement Point	Adjustment Part	Remarks
1. DC Power voltage	DC $5 \pm 0.4$ V	TP901	VR929	
2. Standard voltage	DC $0 \pm 0.05$ V	TP904 and TP905 (Terminal No. 4 and No. 5 of IC966)	VR928	<ul style="list-style-type: none"> <li>• Short circuit between TP902 and TP903</li> <li>• Adjust VR928 so that voltage between TP904 and TP905 becomes <math>0 \pm 0.005</math> V</li> </ul>
3. Quartz lock position		TP906	VR911	<ul style="list-style-type: none"> <li>• Refer to page 13 for details</li> <li>• Adjust so that locking mark position at the center.</li> </ul>
4. Position detecting signal output	1.5Vp-p	TP907	VR966	
5. Pitch control	$\pm 6(\%)$		VR927	<ul style="list-style-type: none"> <li>• Refer to page 14 for details</li> <li>• Pitch control: ON and set at center.</li> </ul>
<b>Playback Heads</b> Refer to Service Manual Vol. 2 of RS-1500US, RS-1506US.				
<b>Playback Head</b> Please refer to Service Manual Vol. 2 (P22—P24) of RS-1500US, RS-1506US and page 15 of this book.				
<b>Playback Amplifier</b> Please refer to Service Manual Vol. 2 (P25—P27) of RS-1500US, RS-1506US.				
Standard Playback Output	0.55 V	Line out jack	VR110 (L-CH) VR210 (R-CH)	<ul style="list-style-type: none"> <li>• Use test tape</li> <li>• 8 position of output control</li> </ul>

Item	Specification	Measurement Point	Adjustment Part	Remarks
Playback Frequency Response			VR106 (L-CH) VR206 (R-CH)	<ul style="list-style-type: none"> <li>Adjustment should be done at high frequency range with 38 cm/s tape speed</li> </ul>
<p><b>38 cm/s tape speed</b></p> <p><b>19 cm/s tape speed</b></p> <p><b>9.5 cm/s tape speed</b></p> <p><b>Note:</b> Dotted line show the frequency response of REV mode.</p>				
Playback S/N ratio	48dB or more (38/19cm/s) 46dB or more (9.5cm/s)	Line out jack		Unweighted
Maximum Playback Output	0.775 V	Line out jack		With output control at max. position.
<b>Record Amplifier</b>				
Please refer to Service Manual Vol. 2 (P28—P34) of RS-1500US, RS-1506US.				
Standard recording level	Mic in: - 72 ± 2dB Line in: - 24 ± 3dB	Line out jack		Standard of output 0.55 V at "8" position of output control

Item	Specification	Measurement Point	Adjustment Part	Remarks
Line input level adjustment	$-24 \pm 3 \text{ dB}$	Line out jack	VR101 (L-CH) VR201 (R-CH)	
Level meter (Source position)	0VU	Level meter	VR108 (L-CH) VR208 (R-CH)	
Bias Osc. frequency	$124 \pm 5 \text{ kHz}$	$I_{ER}(TP3)$	Soldering or unsoldering C542 or C543	
Erase current	$75 +10 - 0 \text{ mA}$	$I_{ER}(TP3)$	VR501 <ul style="list-style-type: none"> <li>Erase current = <math>\frac{\text{Value read on VTVM (V)}}{1 \text{ ohm (R599)}}</math></li> <li>Value indicated should be for each erase head.</li> <li>When there is difference among value for FWD L-CH and R-CH, and REV L-CH and R-CH, adjustment should be made so that the lowest one becomes within the standard.</li> </ul>	
<b>Oscillation Circuit Adjustment</b> 1. Connect VTVM to test point $I_B$ (TP2) and $I_{ER}$ (TP3). 2. Set the unit in the recording mode. 3. Adjust respectively the adjustment coils (as shown below) so that the output at the test point will be maximum. Lch recording bias current L502 Rch recording bias current L504 Erase current L506				
Bias current leakage-1	1 V or less	TP4 (L-CH) TP5 (R-CH)	L102 (L-CH) L202 (L-CH)	
Bias current Leakage-2	3 mV or less	Line out jack	L103 (L-CH) L203 (R-CH)	
<b>Record Head and Erase Head</b> Please refer to the Service Manual Vol. 2 (P36—P37) of RS-1500US, RS-1506US except overall frequency response.				



Item	Specification	Measurement Point	Adjustment Part	Remarks
<div> <div>Overall frequency response</div> <div>Overall Specification</div> <div> <p>Eq. selector: Position 2 Bias selector: Position 2 Line input: - 34dB (38cm/s) - 44dB (19/9.5)</p> </div> </div>				
<div> <div>Adjustment parts:</div> <div> <div> <b>FWD direction:</b>  38cm/s tape speed  VR504 (L-CH)  VR510 (R-CH)  19cm/s tape speed  VR503 &amp; L101 (L-CH)  VR509 &amp; L201 (R-CH)  9.5 cm/s tape speed  VR502 (L-CH)  VR508 (R-CH) </div> <div> <b>REV direction:</b>  38cm/s tape speed  VR507 (L-CH)  VR513 (R-CH)  19cm/s tape speed  VR506 (L-CH)  VR512 (R-CH)  9.5 cm/s tape speed  VR505 (L-CH)  VR511 (R-CH) </div> </div> <div> <b>Note:</b> <ul style="list-style-type: none"> <li>Adjustment parts (variable resistors) beginning with VR are actually used bias current change.</li> <li>L101 and L201 adjust the REC equalization.</li> </ul> </div> </div>				

## **Adjustment Procedure:**

### **A) FWD direction, 19 cm/s tape speed**

1. 400 Hz, -44 dB of input to Line In jacks.
2. Adjust VR503 (L-CH) and VR509 (R-CH) for maximum Line output.
3. Change the input frequency to 10 kHz, and again adjust VR503 and VR509 so that the Line output becomes the same value as for 400 Hz in step 2.
4. Again change the input frequency to 25 kHz, and adjust L101 (L-CH) and L202 (R-CL) so that the Line output becomes 2 dB lower than that of 400 Hz in step 2 above.
5. Then confirm the overall frequency response for other frequencies is in the standard.

### **B) FWD direction, 38 cm/s tape speed**

1. 400 Hz, -44 dB of input to Line In jacks.
2. Adjust VR504 (L-CH) and VR510 (R-CH) for the maximum Line output.
3. Change the input frequency to 26 kHz, and adjust again VR504 and VR510 so that the Line output becomes 1 dB lower than that of 400 Hz in step 2.
4. Then change the input frequency to 30 kHz and confirm that the Line output is within -2 dB compared with output of 400 Hz in step 2 above.
5. After above, confirm that the overall frequency response for other frequencies is in the standard.

### **C) FWD direction, 9.5 cm/s tape speed**

1. 400 Hz, -44 dB of input to Line In jacks.
2. Adjust VR502 (L-CH) and VR508 (R-CH) for the maximum Line output.
3. Change the input frequency to 14 kHz, and adjust again VR502 and VR508 so that the Line output becomes within -2 dB compared with the output of 400 Hz in step 2 above.
4. Then confirm the overall frequency response for each frequency.

### **D) REV direction, 38 cm/s tape speed**

Adjustment method is the same as in FWD direction but adjustment should be done by using VR507 (L-CH) and VR513 (R-CH).

### **E) REV direction, 19 cm/s tape speed**

1. 400 Hz, -44 dB of input to Line In jacks.
2. Adjust VR506 (L-CH) and (R-CH) for the maximum Line output.
3. And change the input frequency to 25 kHz, and adjust VR506 and VR512 so that the Line output becomes within -2 dB with compared to the output of 400 Hz in step 2 above.
4. Then confirm that overall frequency response for each frequency is within the standard.

### **F) REV direction, 9.5 cm/s tape speed**

Adjustment method is the same way as in FWD direction but adjustment parts are VR505 (L-CH) and VR511 (R-CH).

Item	Specification	Measurement Point	Adjustment Part	Remarks
Bias current	Bias selector: 2 38cm/s: around 2.9mA 19cm/s: around 2.7mA 9.5cm/s: around 2.3mA For position 1 of Bias selector: 10% less than that with position 2 of Bias selector. For position 3 of Bias selector: 10% more than with position 2 of Bias selector.	I <sub>B</sub> (TP2)	Refer to overall frequency response adjustment.	
Recording equalization				

**Compensation values depending upon frequencies.**

Tape speed: 38cm/s, Eq. position: 2

Frequency (Hz)	31.5	100	400	6.3K	20K
Value (dB)	3 ± 2	1 ± 2	0	- 2 ± 2	2 ± 3

Tape speed: 19cm/s, Eq. position: 2

Frequency (Hz)	400	6.3K	16K
Value (dB)	0	3 ± 3	12 ± 4

Tape speed: 9.5cm/s, Eq. position: 2

Frequency (Hz)	400	6.3K	12.5K
Value (dB)	0	4 ± 3	15 ± 4

**Compensation value depending upon EQ. positions.**

Tape speed: 38cm/s, Frequency: 20kHz

Eq. position	1	2	3
Value (dB)	+ 3 ± 1	0	- 3 ± 1

Tape speed: 19cm/s, Frequency: 16kHz

Eq. position	1	2	3
Value (dB)	3 ± 2	0	- 3 ± 2

Tape speed: 9.5cm/s, Frequency: 12.5kHz

Position	1	2	3
Value (dB)	4 ± 3	0	- 4 ± 3



Item	Specification	Measurement Point	Adjustment Part	Remarks
Overall gain	$0.55\text{V} \pm 1\text{dB}$ ( $0.775\text{V} \pm 1\text{dB}$ )	Line out jack	FWD direction VR104 (L-CH) VR204 (R-CH) REV direction VR105 (L-CH) VR205 (R-CH)	<ul style="list-style-type: none"> <li>Line in: <math>-24\text{dB}</math></li> <li>Output level control "8" position (Max position)</li> </ul>
Recording current	$180\mu\text{A}$	IB (TP2)	_____	Remove fuse on oscillation circuit board to stop the bias oscillation.
Level meter (for playback)	0VU	On meter	VR109 (L-CH) VR209 (R-CH)	Monitor: Tape position
Overall S/N ratio	38cm/s: 46dB or more 19cm/s: 46dB or more 9.5cm/s: 44dB or more	Line out jack	_____	<ul style="list-style-type: none"> <li>Frequency 1 kHz</li> </ul>
Erase ratio	1 kHz: 70dB or more 100Hz: 60dB or more	Line out jack	_____	Tape speed: 38cm/s Input: $-14\text{dB}$
Overall distortion	0.8% or less	Line out jack	_____	

# 1. MECHANISM

The items, methods and specifications for measurements and adjustments are basically the same as for RS-1500US. Therefore, only these items which differ between RS-1700 and RS-1500US are mentioned in the following.

## [1] Tape Transport

Thread 150% blank tape through the unit and run the tape forward and reverse at a speed of 19cm/sec. Then make the following adjustments so that the tape is not curled by the tape guide tension roller.

[A] Tension Rollers Height Adjustment.

[B] Reel Tables Height Adjustment.

[C] Tape Guide Adjustment.

Since the adjustments in (A) and (B) are the same as for RS-1500US, refer to RS-1500US Service Manual Vol. 2.

### 1) Tape Guide Adjustment

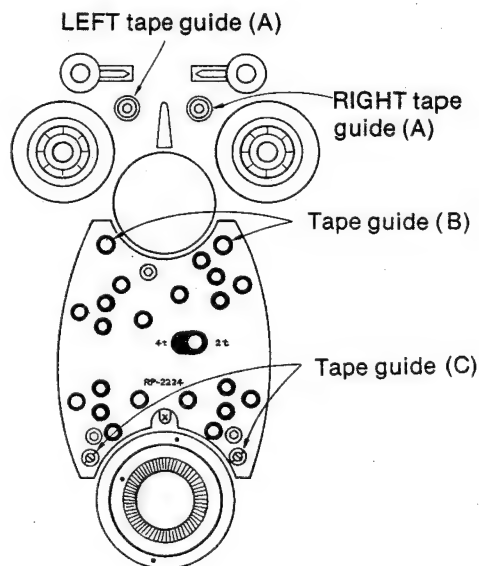
Tape guide (B) is fixed, and the tape transport can be adjusted with tape guide (A) and tape guide (C).

a) Make the adjustment so that the tape runs at the center of tape guide (B) without being curled.

- \* LEFT tape guide (A) in forward mode.
- \* RIGHT tape guide (A) in reverse mode.

b) Tape guide (C)

Adjust tape guide (C) so that the tape is not curled at tape guide (C) in forward and reverse modes.



**c) The factors of tape travel variation can be summarized as follows:**

**Forward mode**

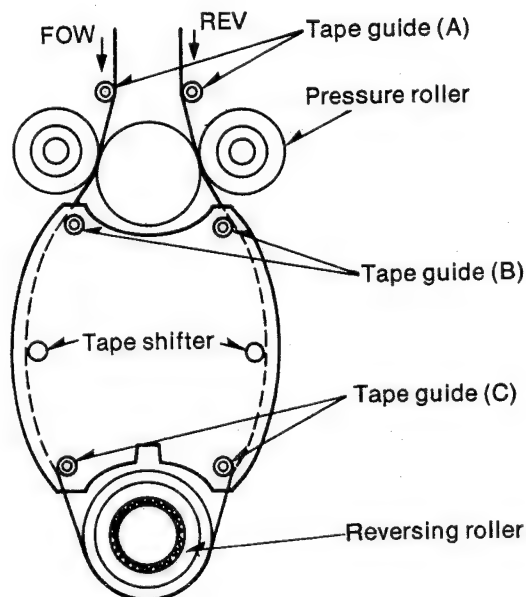
- Left tension roller height.
- Height of tape guide (A).
- Tilt and contact of reverse playback head.
- Tilt of reversing roller (when tape is curled at tape guide (C)).

**Reverse mode**

- Right tension roller height.
- Height of tape guide (A).
- Tilt and contact of forward playback head.
- Tilt of reversing roller.

**FF/REW mode**

- Heights of tape guides (A), (B), (C).
- Verticality of tape shifter.



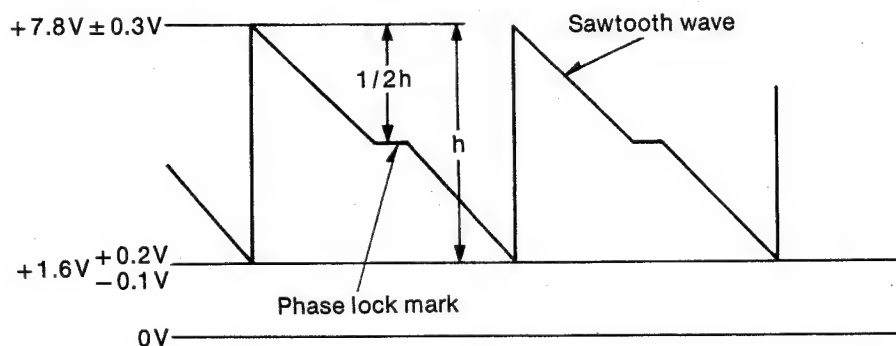
## [2] Tape Speed, Wow and Flutter

Since the contents of 1) Tape speed measurement, 2) Tape speed fluctuation measurement, and 3) Wow and flutter measurement are the same as for RS-1500US, refer to RS-1500US Service Manual Vol. 2. But for pitch control adjustment and capstan motor circuit adjustment, RS-1700 differs from RS-1500US as follows:

### 1) Adjustment of Capstan Motor Circuit

Connect oscilloscope to TP906. (Dual-trace oscilloscope is not needed for RS-1700.)

2. Set AC/DC selector switch of oscilloscope to DC position.
3. Thread 10" or 7" real tape and set tape speed selector to 9.5cm/sec.
4. Playback the tape (at the middle of tape wound).
5. Make the adjustment so that the output waveform of TP906 is as shown below at VR911.





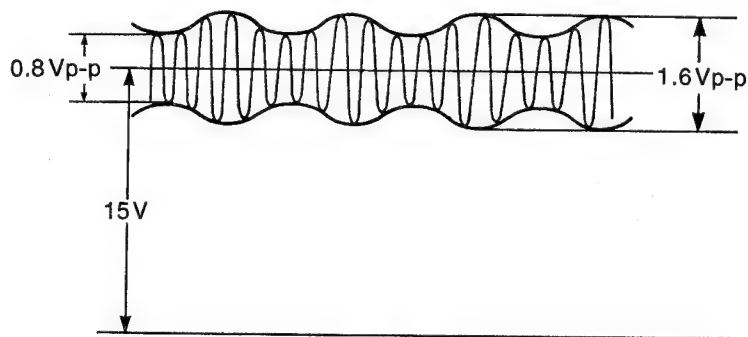
6. The phase lock mark is shifted upward when the tape speed is changed to 19cm/sec. and 38cm/sec. If it is stationary, there will be no problem.

## 2) Pitch Control Adjustment

1. Set the pitch control switch to ON, maintaining the connection made in section 1).
2. Thread 10" or 7" real tape and set tape speed selector to 9.5cm/sec.
3. Adjust VR927 so that the lock mark of sawtooth wave is as stationary as possible (actually the lock mark moves slowly).

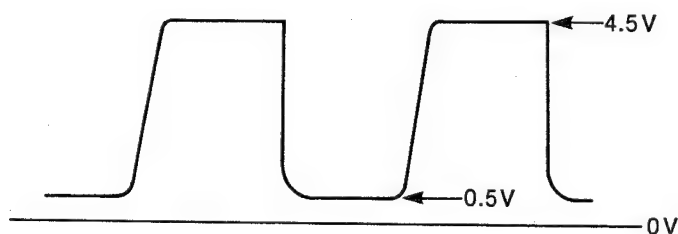
## 3) Position Detecting Signal Output

1. Connect oscilloscope to TP907 (capstan motor control circuit board).
2. Set the tape speed to 9.5cm/sec. in playback mode.
3. Measure the peak-to-peak voltage of position detecting signal of TP907 with the oscilloscope.
4. If the measured signal voltage is markedly different from the voltage shown below, make the necessary adjustment with VR966.



## 4) Adjustment of Auto Reverse Detection Circuit

1. Retain the tension roller so that shut-off switch (S19, S20) turns ON.
2. Set the unit to playback mode without tape threaded. Connect oscilloscope to TP (main control circuit board R89 1.5K), and then check the waveform.
3. Adjust VR1 so that the voltage waveform of TP becomes a sharper square waveform and its amplitude is as shown below.



## 2. HEAD ADJUSTMENT

The head composition of RS-1700 is different from that of RS-1500US. It is composed of Forward Erase/Record Head, Forward Playback Head, Reverse Frase/Record Head, and Reverse Playback Head. For alignment, however, RS-1700 is basically the same as RS-1500US.

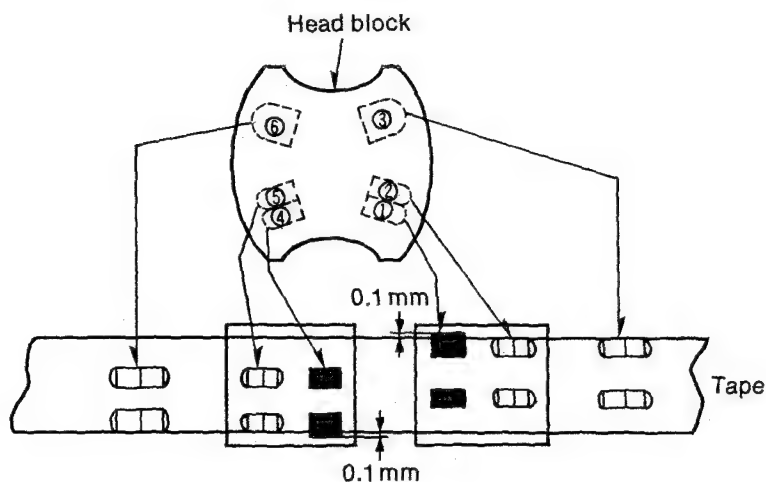
- (1) Playback head adjustment (both forward and reverse).
  - (2) Frase/Record head adjustment (both forward and reverse).
- Regarding (1) and (2), the following adjustments are necessary.

- [A] Head height.
- [B] Tilt.
- [C] Azimuth.
- [D] Contact and tangency.
- [E] Phase.

Since the adjustment methods for (A) and (B) are the same as for RS-1500US, refer to RS-1500US Service Manual Vol. 2 P22—P24, P36—P37.

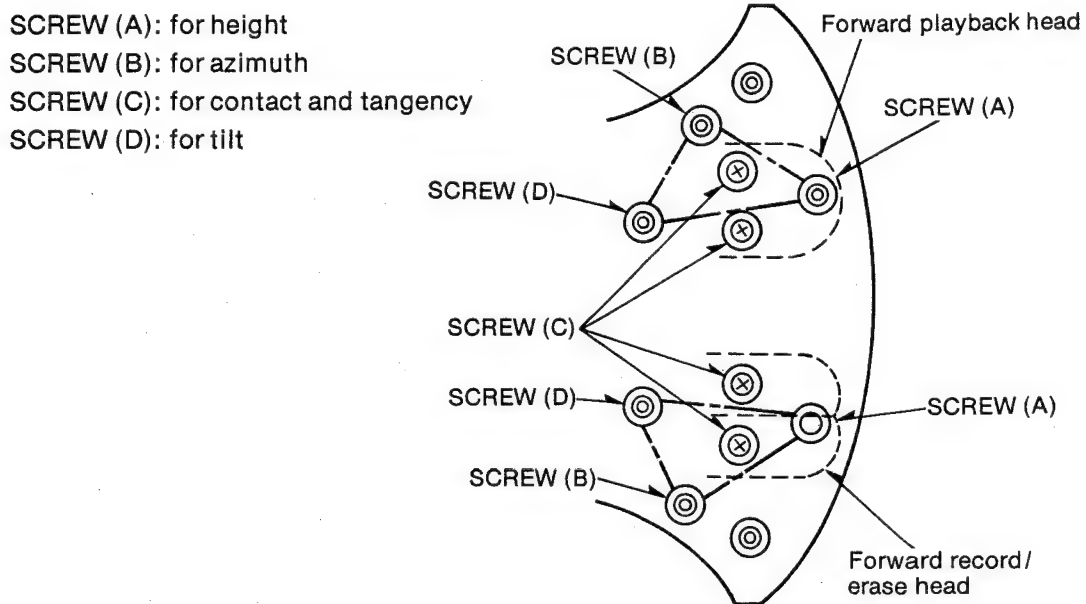
### [1] Head Setting

- a) Tape transport must be adjusted and checked before the adjustment of electrical characteristics. But if the tape travel is not normal, carry out the above-stated tape guide adjustment, and then check and adjust the head position; i.e. head height, tilt, tangent and tape contact.
- b) Since the adjustment of each head is the same as for RS-1500US, refer to RS-1500US Service Manual Vol. 2. Incidentally, make the adjustments for RS-1700 in forward and reverse modes.
- c) Head height, and tape touch of Record/Erase head.

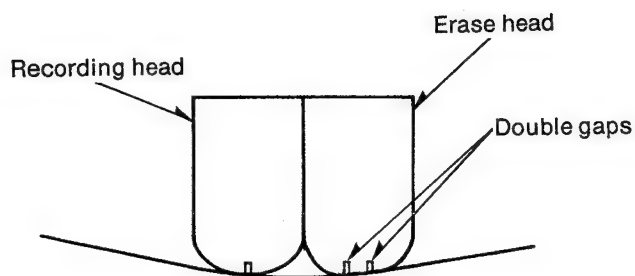


- ① Forward erase head.
- ② Forward record head.
- ③ Forward playback head.
- ④ Reverse erase head.
- ⑤ Reverse record head.
- ⑥ Reverse playback head.

- (1) The height of each head from the tape must be visually checked and then adjusted with head height adjustment screw as shown above.



- (2) Tape touch of Record/Erase head.

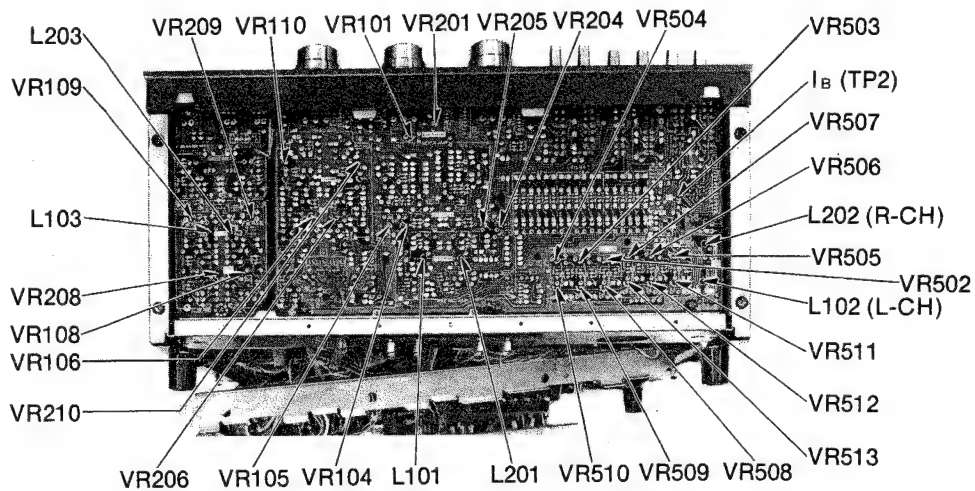


Adjust the Record/Erase head position with head adjustment screw (C) so that record head gap and erase head gaps touch the tape as illustrated above.

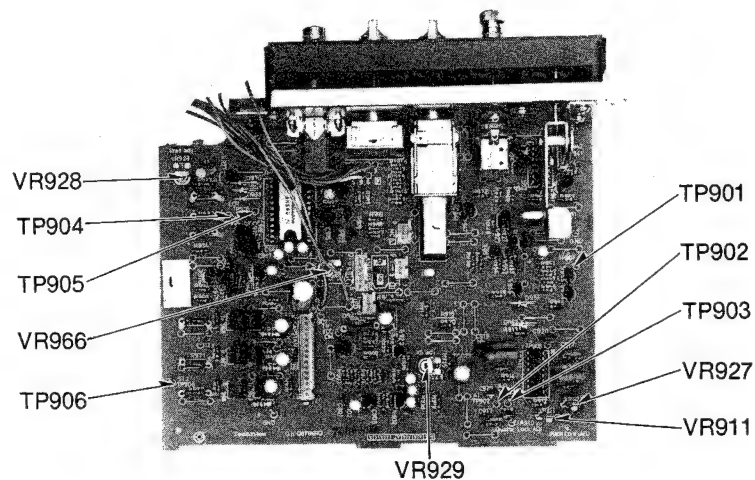


# ADJUSTMENT PARTS LOCATION

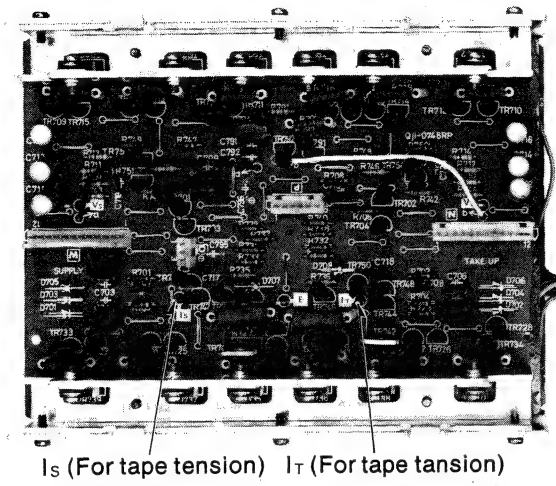
## Line-out Headphone/Main Amplifier



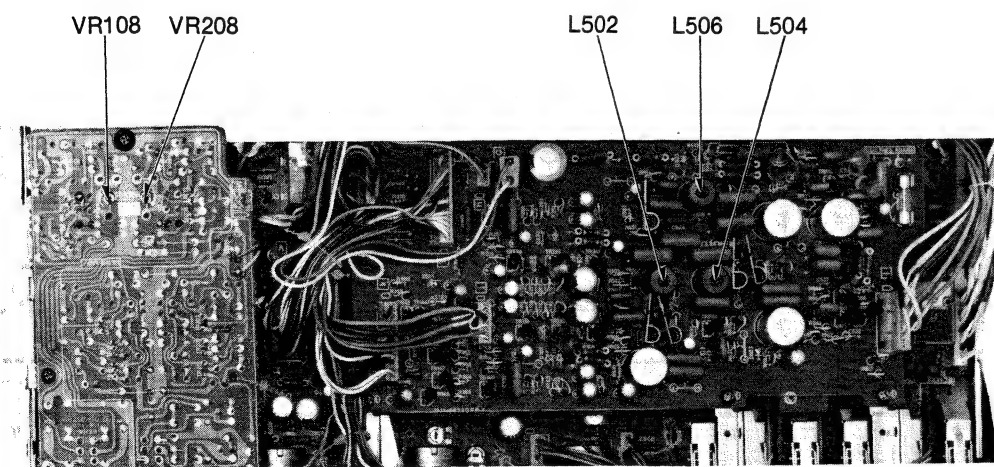
## Capstan Motor Control Circuit



# Reel Motor Driving Circuit

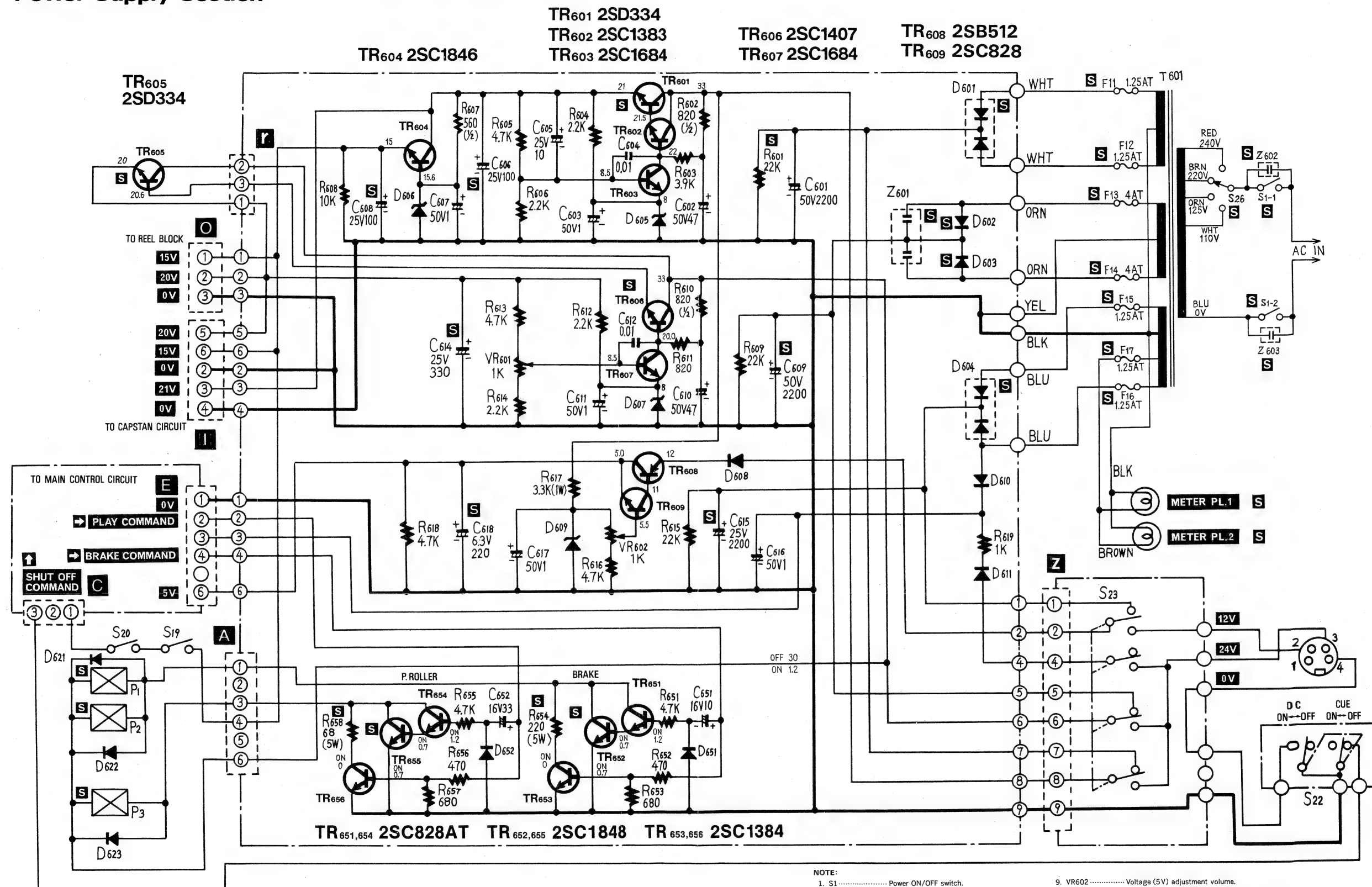


# Mic and Meter Amplifier/ Oscillation Circuit



# SCHEMATIC DIAGRAM MODEL RS-1700

## Power Supply Section



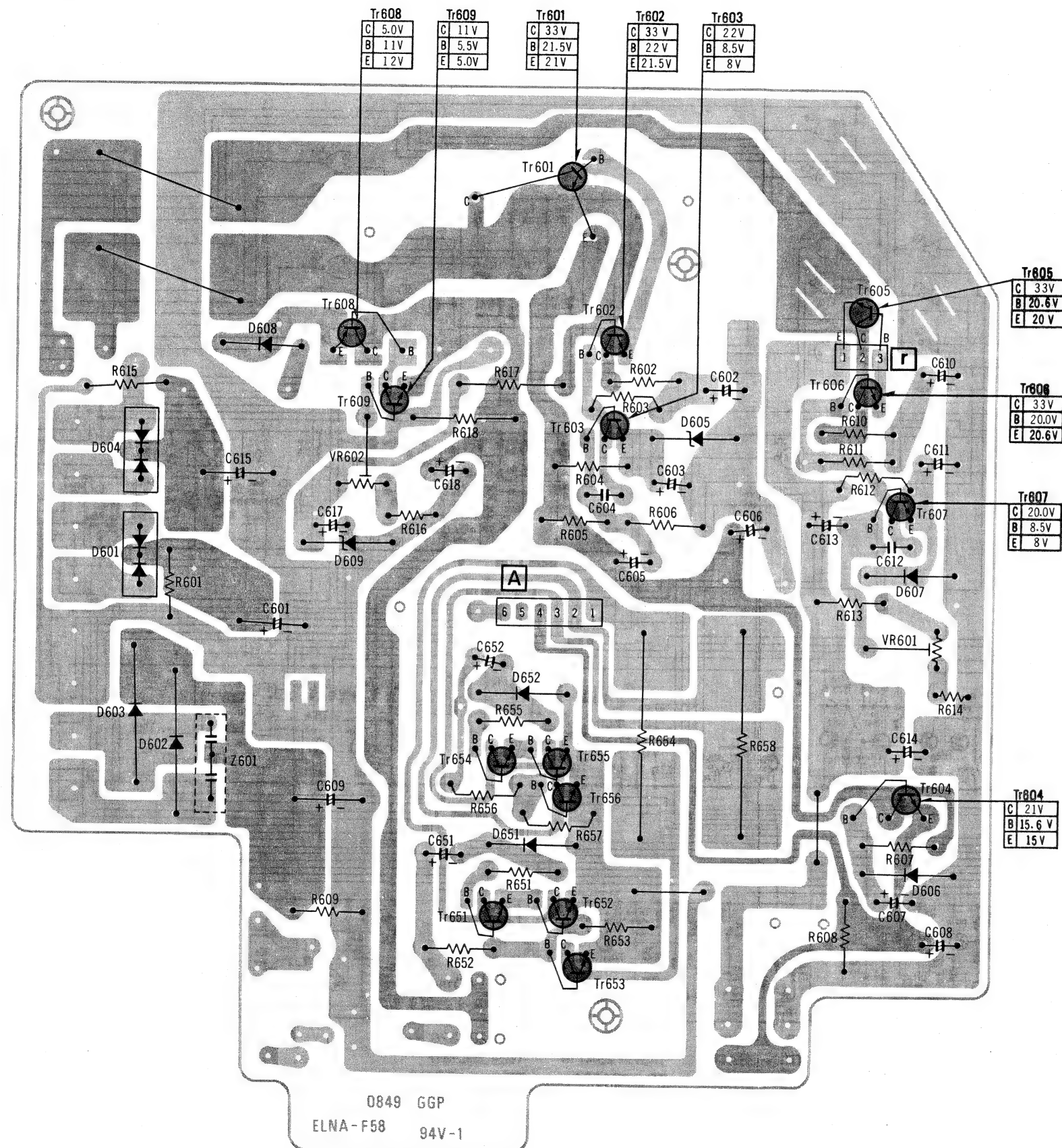
### NOTE:

- S1 ..... Power ON/OFF switch.
- S19, 20 ..... Shut-off switch.
- S22 ..... Cue ON/OFF & DC power ON/OFF switch.
- S23 ..... AC/DC select switch.
- S26 ..... AC voltage select switch.
- P1, 2 ..... Brake plunger.
- P3 ..... Pressure roller plunger.
- VR601 ..... Voltage (20V) adjustment volume.
- VR602 ..... Voltage (5V) adjustment volume.
- Resistor values are in ohms ( $\Omega$ ), 1/4 watt unless specified otherwise - K = 1,000 $\Omega$ .
- Capacitor values are in microfarads ( $\mu$ F) unless specified otherwise. P = Pico-farads.
- All voltage values show in circuitry are under no signal condition with volume control at minimum position. For measurement, use VTVM.
- Ⓢ indicates that only parts specified by the manufacturer be used for safety.



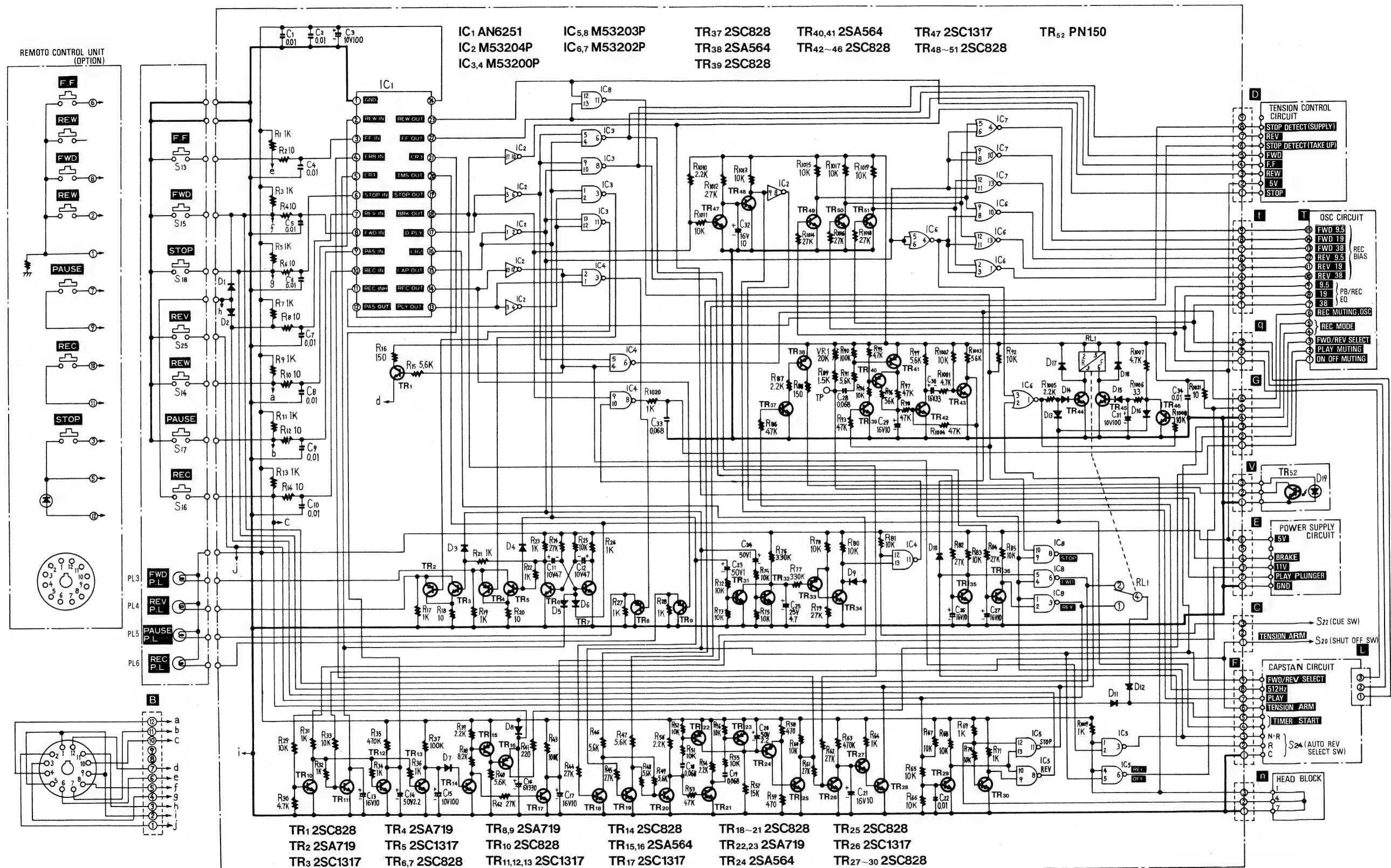
# CIRCUIT BOARD

## Power Supply



# SCHEMATIC DIAGRAM MODEL RS-1700

## Main Control Section



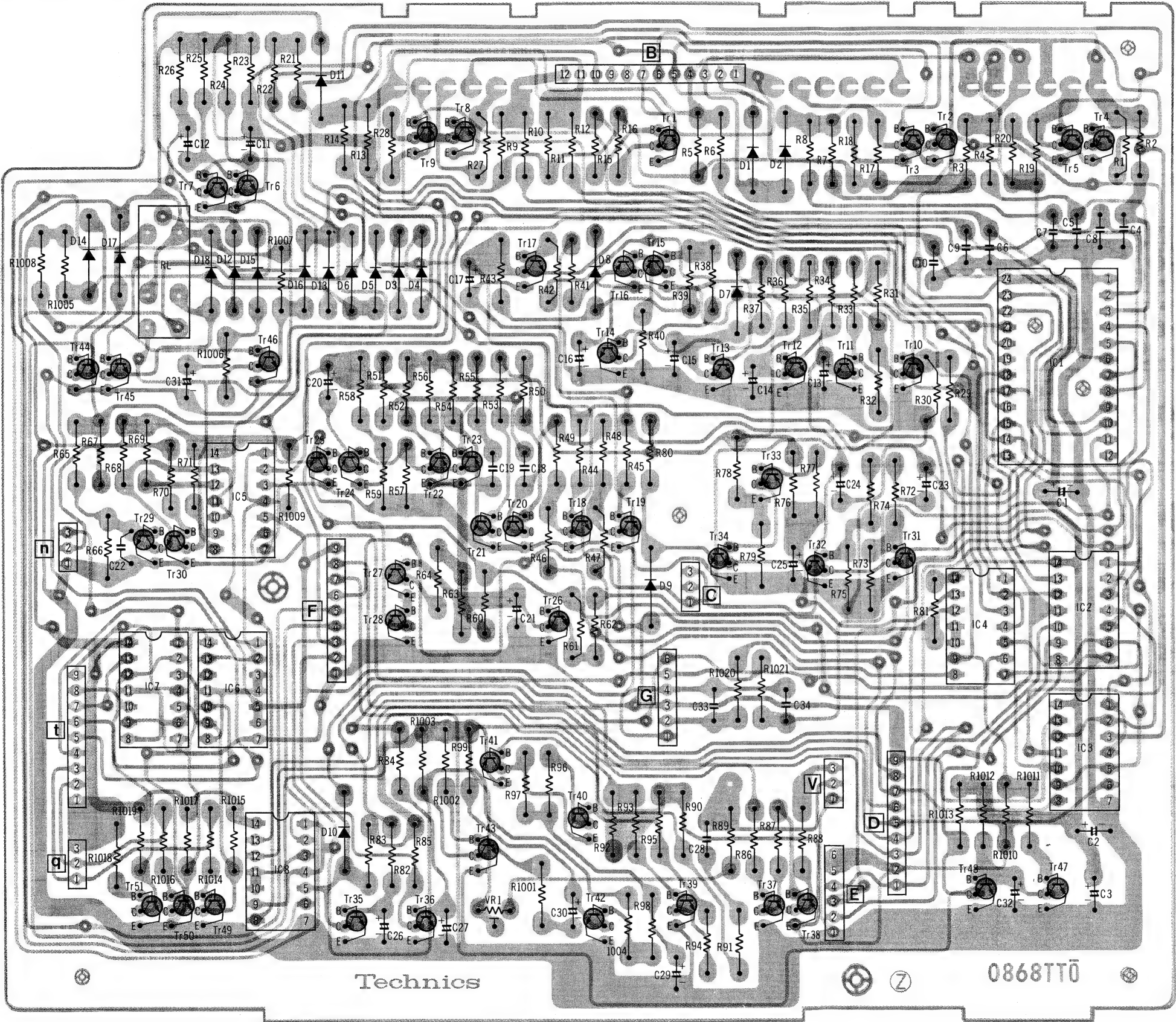
### NOTE:

- S13~18, 25.....Control key switch.
- VR1.....Photo transistor adjustment VR.
- RL1.....Forward/reverse select relay.
- Resistor values are in ohms ( $\Omega$ ), 1/4 watt unless specified otherwise.  
K=1,000 $\Omega$ .
- Capacitor values are in microfarads ( $\mu$ F) unless specified otherwise.  
P=Pico-farads.



# CIRCUIT BOARD

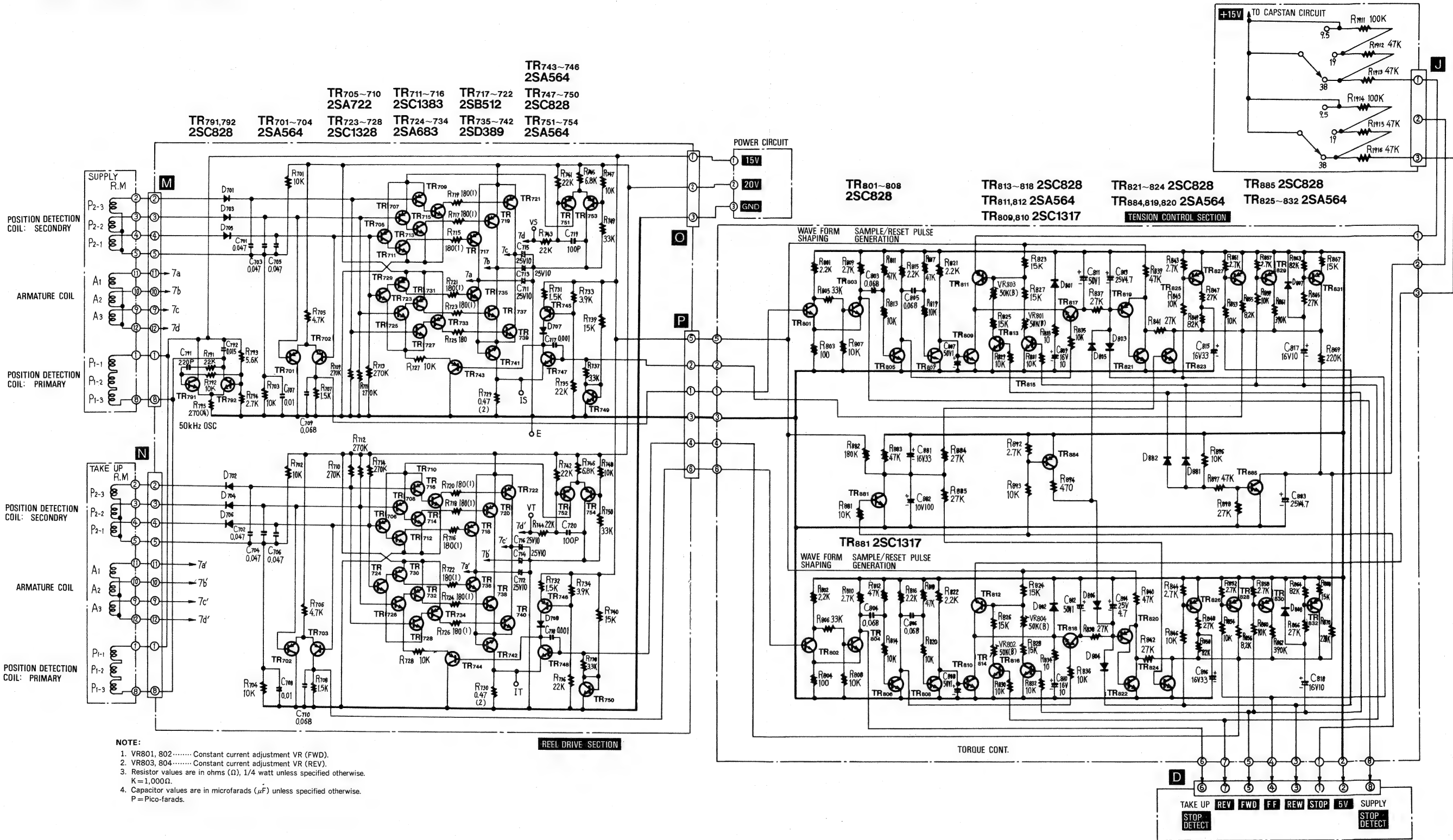
Main Control



NOTE:  
The circuit shown in red on the conductor is B circuit.

SCHEMATIC DIAGRAM MODEL RS-1700

Reel Motor Section

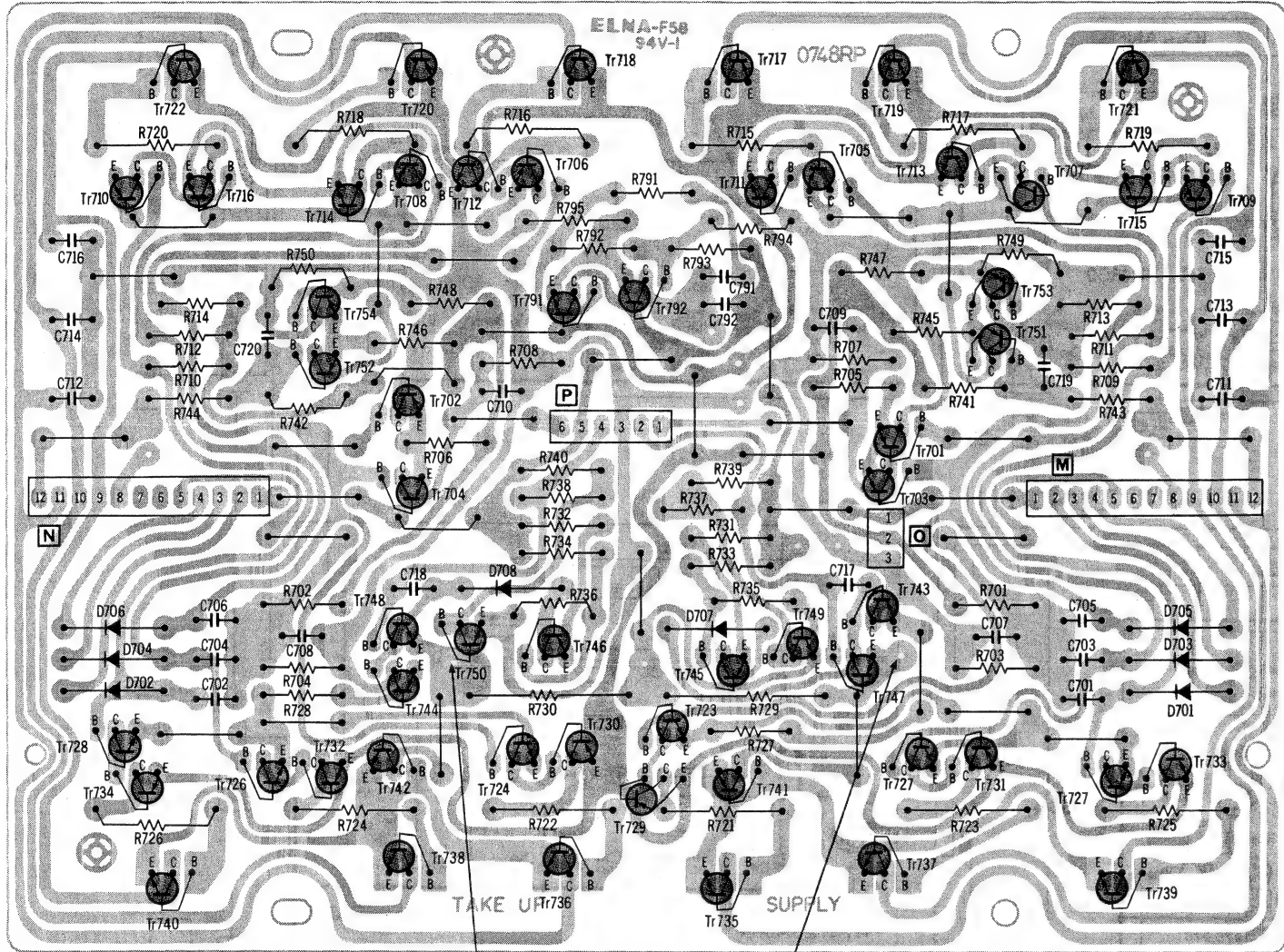




# CIRCUIT BOARD

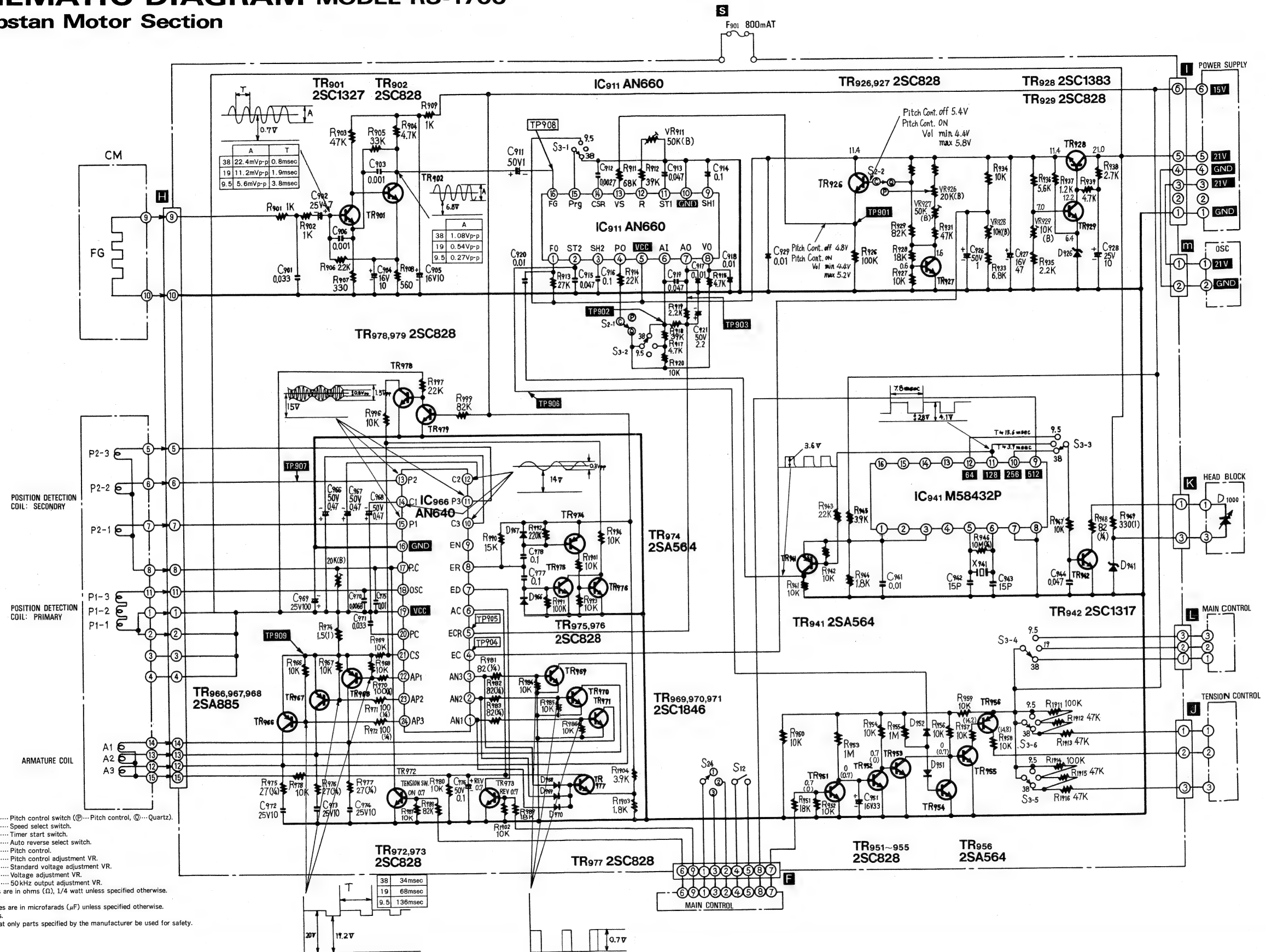
2

## Reel Motor Driving



# SCHEMATIC DIAGRAM MODEL RS-1700

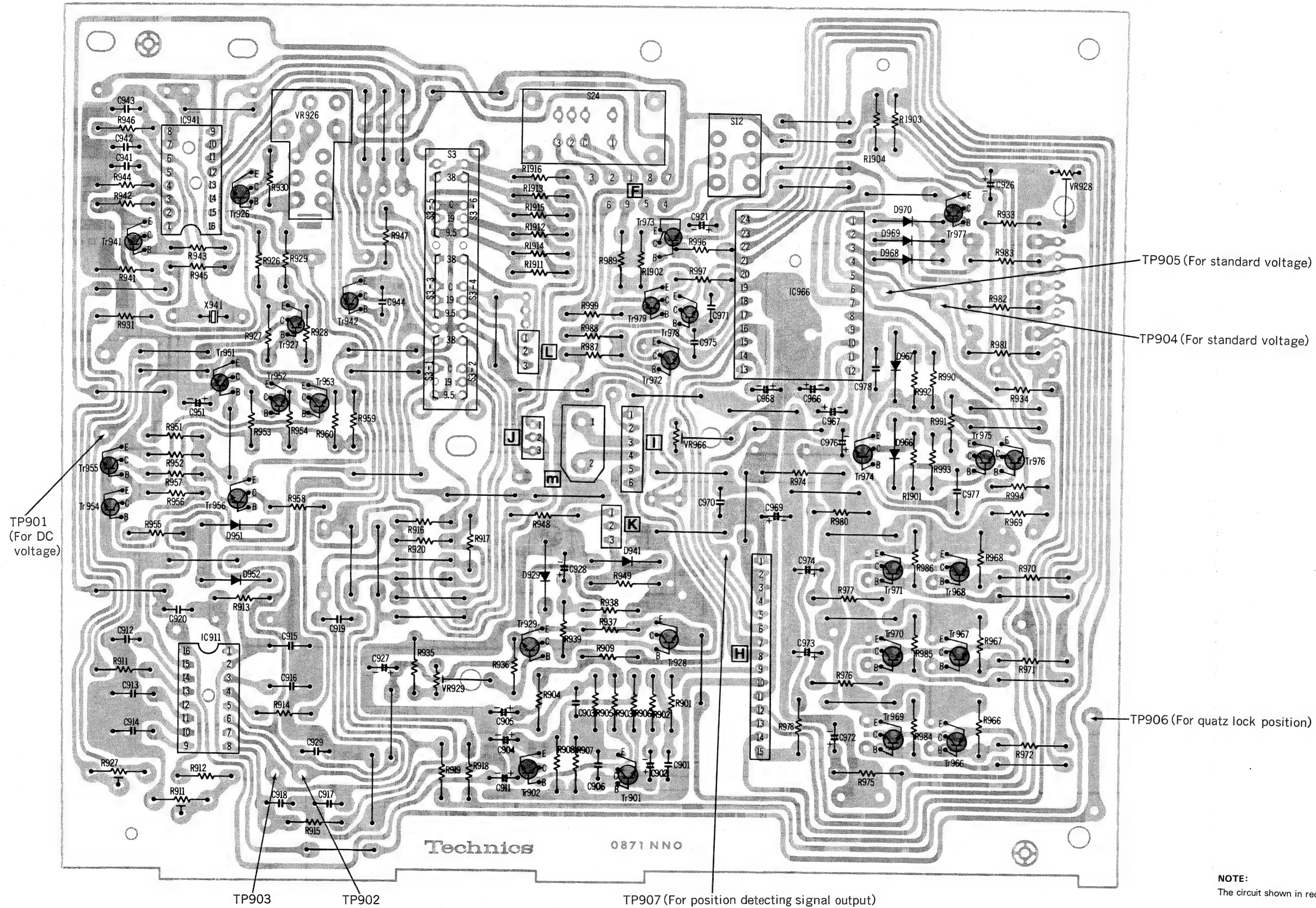
## Capstan Motor Section





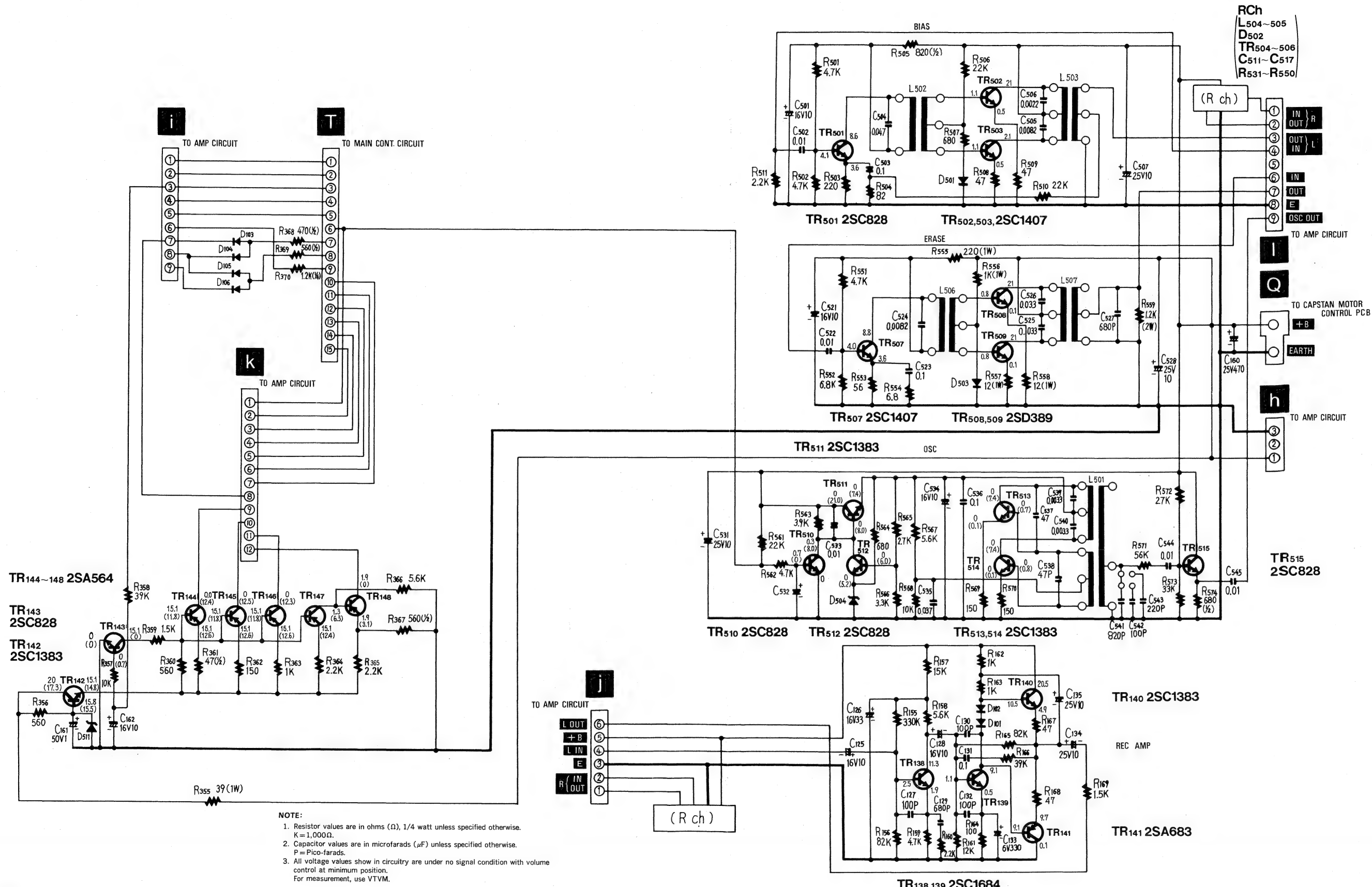
# CIRCUIT BOARD

Capstan Motor Control



NOTE:  
The circuit shown in red on the conductor is B circuit.

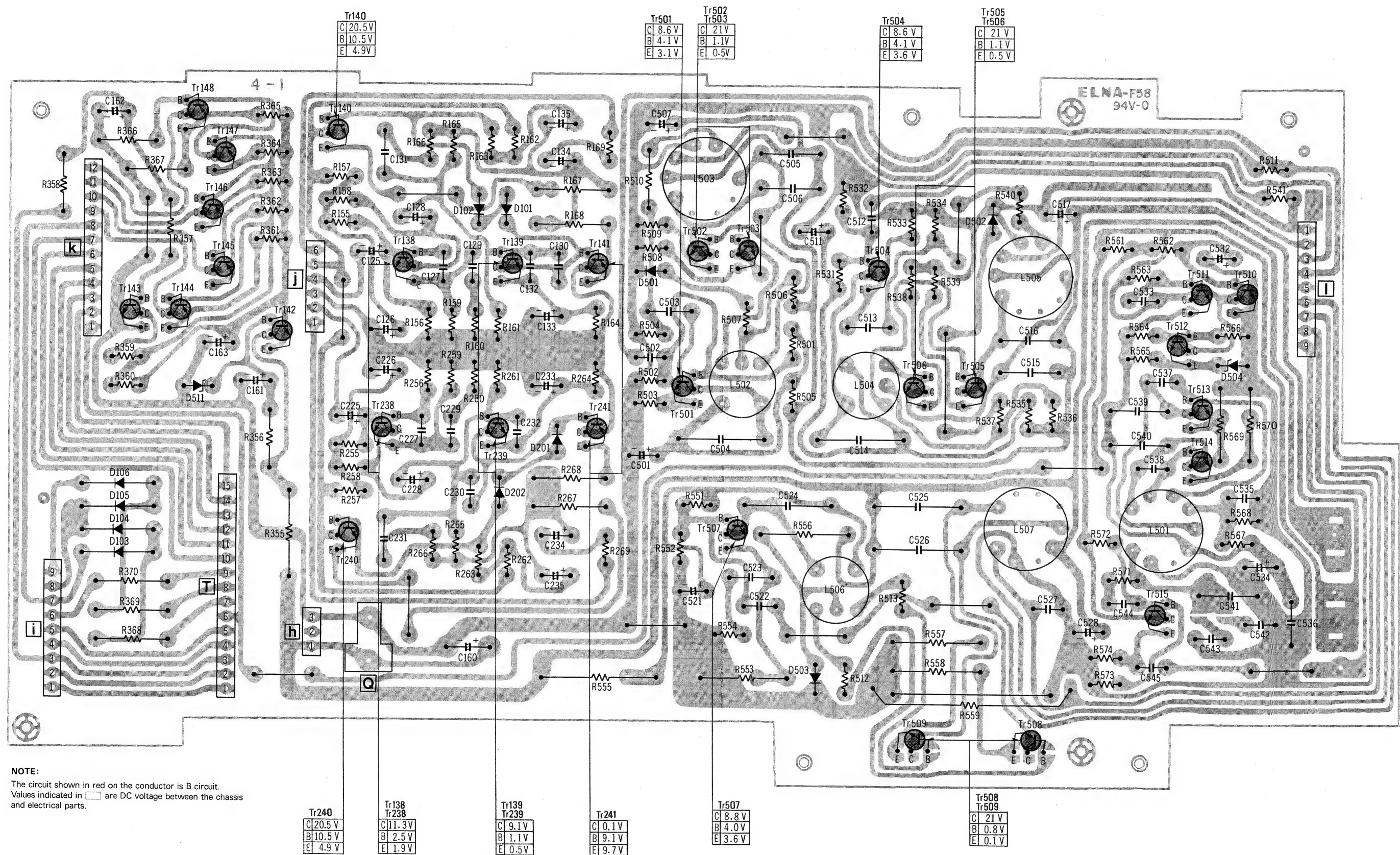
**SCHEMATIC DIAGRAM MODEL RS-1700**  
**Oscillation Section**





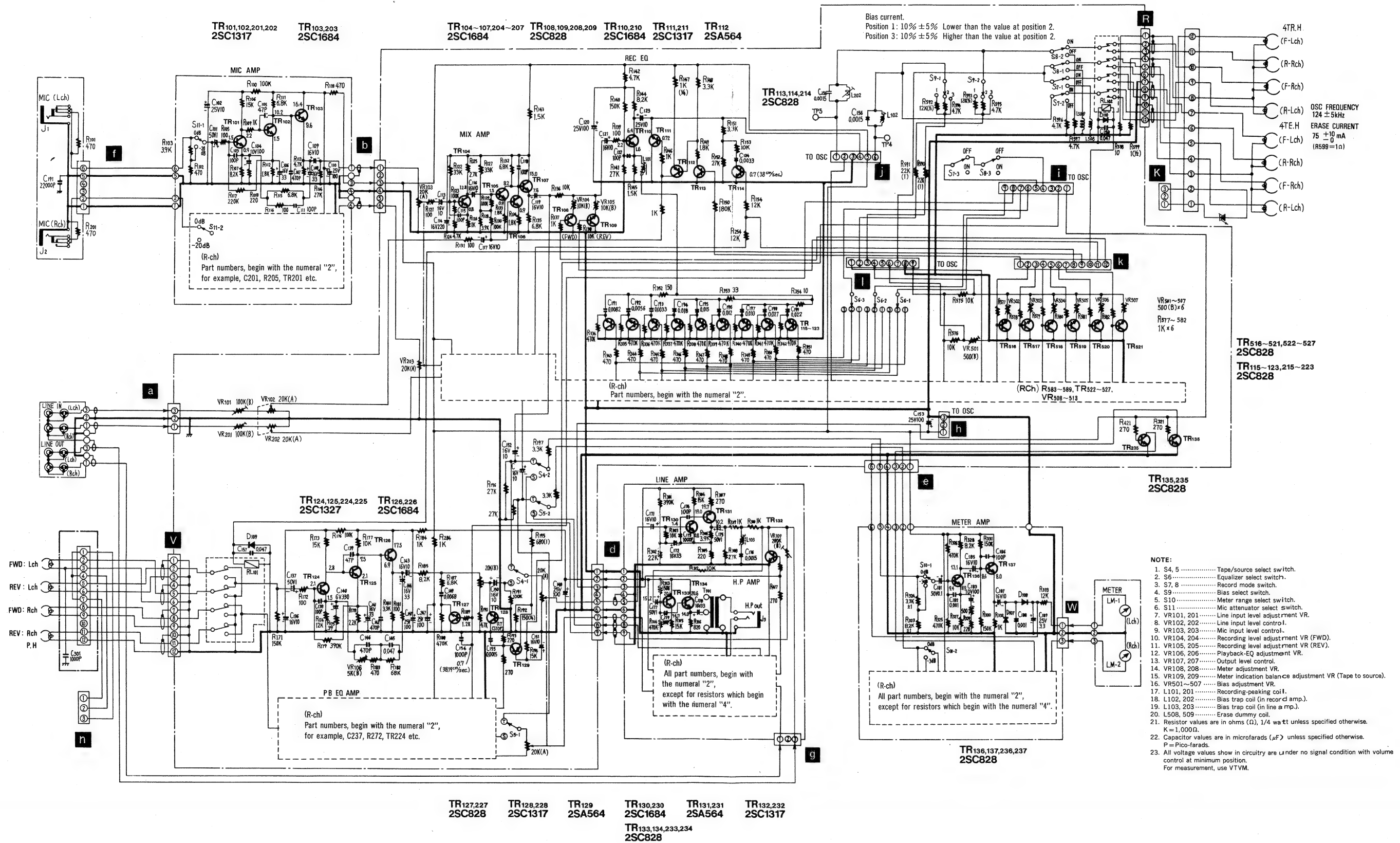
# CIRCUIT BOARD

Oscillation



# SCHEMATIC DIAGRAM MODEL RS-1700

## Main Amp Section





**Technics SW10**

**ELNA-F58 94V-1 0757**

**Tr201**  
C 2.2V  
B 1.5V  
E 0.9V

**Tr202**  
C 10.2V  
B 2.2V  
E 1.6V

**Tr203**  
C 16.4V  
B 10.2V  
E 8.9V

**Tr236**  
C 13.1V  
B 9.4V  
E 8.9V

**Tr237**  
C 20.5V  
B 8.6V  
E 8.0V

**Tr101**  
C 2.2V  
B 1.5V  
E 0.9V

**Tr102**  
C 10.2V  
B 2.2V  
E 1.6V

**Tr103**  
C 16.4V  
B 10.2V  
E 8.9V

**Tr136**  
C 13.1V  
B 9.4V  
E 8.9V

**Tr137**  
C 20.5V  
B 8.6V  
E 8.0V

**VR208**  
VR108

**D207**  
D208

**D107**  
D108

**R101**  
R102  
R103  
R104  
R105  
R106  
R107  
R108  
R109  
R110  
R111  
R112  
R113  
R114  
R115  
R116  
R117  
R118  
R119  
R120  
R121  
R122  
R123  
R124  
R125  
R126  
R127  
R128  
R129  
R130  
R131  
R132  
R133  
R134  
R135  
R136  
R137  
R138  
R139  
R140  
R141  
R142  
R143  
R144  
R145  
R146  
R147  
R148  
R149  
R150  
R151  
R152  
R153  
R154  
R155  
R156  
R157  
R158  
R159  
R160  
R161  
R162  
R163  
R164  
R165  
R166  
R167  
R168  
R169  
R170  
R171  
R172  
R173  
R174  
R175  
R176  
R177  
R178  
R179  
R180  
R181  
R182  
R183  
R184  
R185  
R186  
R187  
R188  
R189  
R190  
R191  
R192  
R193  
R194  
R195  
R196  
R197  
R198  
R199  
R200  
R201  
R202  
R203  
R204  
R205  
R206  
R207  
R208  
R209  
R210  
R211  
R212  
R213  
R214  
R215  
R216  
R217  
R218  
R219  
R220  
R221  
R222  
R223  
R224  
R225  
R226  
R227  
R228  
R229  
R230  
R231  
R232  
R233  
R234  
R235  
R236  
R237  
R238  
R239  
R240  
R241  
R242  
R243  
R244  
R245  
R246  
R247  
R248  
R249  
R250  
R251  
R252  
R253  
R254  
R255  
R256  
R257  
R258  
R259  
R260  
R261  
R262  
R263  
R264  
R265  
R266  
R267  
R268  
R269  
R270  
R271  
R272  
R273  
R274  
R275  
R276  
R277  
R278  
R279  
R280  
R281  
R282  
R283  
R284  
R285  
R286  
R287  
R288  
R289  
R290  
R291  
R292  
R293  
R294  
R295  
R296  
R297  
R298  
R299  
R300  
R301  
R302  
R303  
R304  
R305  
R306  
R307  
R308  
R309  
R310  
R311  
R312  
R313  
R314  
R315  
R316  
R317  
R318  
R319  
R320  
R321  
R322  
R323  
R324  
R325  
R326  
R327  
R328  
R329  
R330  
R331  
R332  
R333  
R334  
R335  
R336  
R337  
R338  
R339  
R340  
R341  
R342  
R343  
R344  
R345  
R346  
R347  
R348  
R349  
R350  
R351  
R352  
R353  
R354  
R355  
R356  
R357  
R358  
R359  
R360  
R361  
R362  
R363  
R364  
R365  
R366  
R367  
R368  
R369  
R370  
R371  
R372  
R373  
R374  
R375  
R376  
R377  
R378  
R379  
R380  
R381  
R382  
R383  
R384  
R385  
R386  
R387  
R388  
R389  
R390  
R391  
R392  
R393  
R394  
R395  
R396  
R397  
R398  
R399  
R400  
R401  
R402  
R403  
R404  
R405  
R406  
R407  
R408  
R409  
R410  
R411  
R412  
R413  
R414  
R415  
R416  
R417  
R418  
R419  
R420  
R421  
R422  
R423  
R424  
R425  
R426  
R427  
R428  
R429  
R430  
R431  
R432  
R433  
R434

**C101**  
C102  
C103  
C104  
C105  
C106  
C107  
C108  
C109  
C110  
C111  
C112  
C113  
C114  
C115  
C116  
C117  
C118  
C119  
C120  
C121  
C122  
C123  
C124  
C125  
C126  
C127  
C128  
C129  
C130  
C131  
C132  
C133  
C134  
C135  
C136  
C137  
C138  
C139  
C140  
C141  
C142  
C143  
C144  
C145  
C146  
C147  
C148  
C149  
C150  
C151  
C152  
C153  
C154  
C155  
C156  
C157  
C158  
C159  
C160  
C161  
C162  
C163  
C164  
C165  
C166  
C167  
C168  
C169  
C170  
C171  
C172  
C173  
C174  
C175  
C176  
C177  
C178  
C179  
C180  
C181  
C182  
C183  
C184  
C185  
C186  
C187  
C188  
C189  
C190  
C191  
C192  
C193  
C194  
C195  
C196  
C197  
C198  
C199  
C200  
C201  
C202  
C203  
C204  
C205  
C206  
C207  
C208  
C209  
C210  
C211  
C212  
C213  
C214  
C215  
C216  
C217  
C218  
C219  
C220  
C221  
C222  
C223  
C224  
C225  
C226  
C227  
C228  
C229  
C230  
C231  
C232  
C233  
C234  
C235  
C236  
C237  
C238  
C239  
C240  
C241  
C242  
C243  
C244  
C245  
C246  
C247  
C248  
C249  
C250  
C251  
C252  
C253  
C254  
C255  
C256  
C257  
C258  
C259  
C260  
C261  
C262  
C263  
C264  
C265  
C266  
C267  
C268  
C269  
C270  
C271  
C272  
C273  
C274  
C275  
C276  
C277  
C278  
C279  
C280  
C281  
C282  
C283  
C284  
C285  
C286  
C287  
C288

**Tr101**  
Tr102  
Tr103  
Tr136  
Tr137  
Tr201  
Tr202  
Tr203  
Tr236  
Tr237

**SW11**  
SW10

**HEADPHONE JACK**

**MICROPHONE JACK**

**Technics**

**07583P**

**Tr134**

C	20.6V
B	14.7V
E	14.0V

**Tr133**

C	20.6V
B	15.2V
E	14.7V

**Tr132**

**Tr131**

C	19.7V
B	19.0V
E	10.2V

**Tr130**

C	19.0V
B	1.4V
E	0.8V

**Tr201**

**Tr234**

C	20.6V
B	14.7V
E	14.0V

**Tr233**

C	20.6V
B	15.2V
E	14.7V

**Tr232**

**Tr231**

C	19.7V
B	19.0V
E	10.2V

**Tr230**

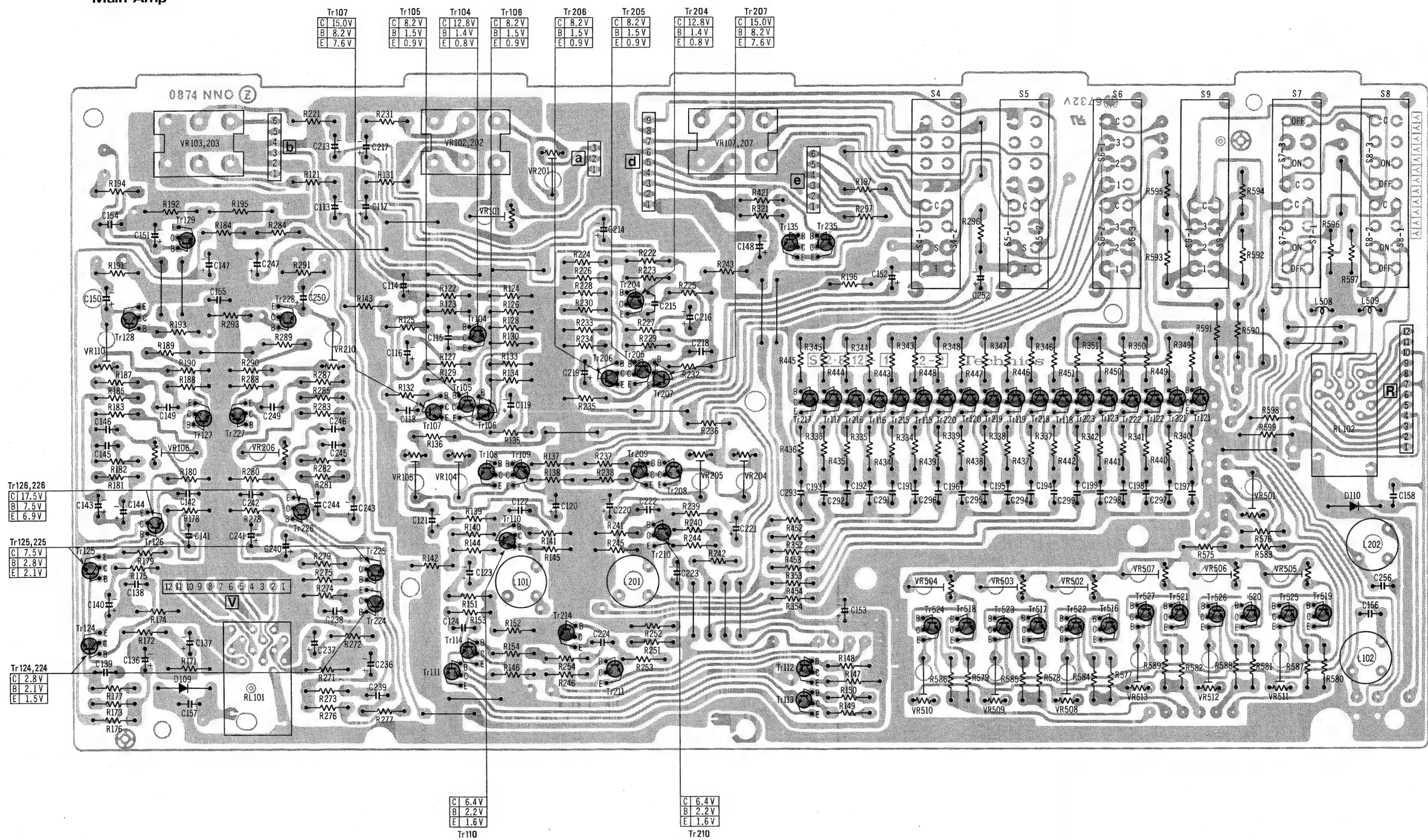
C	19.0V
B	1.4V
E	0.8V

**NOTE:**  
The circuit shown in red on the conductor is B circuit.  
Values indicated in   are DC voltage between the chassis and electrical parts.

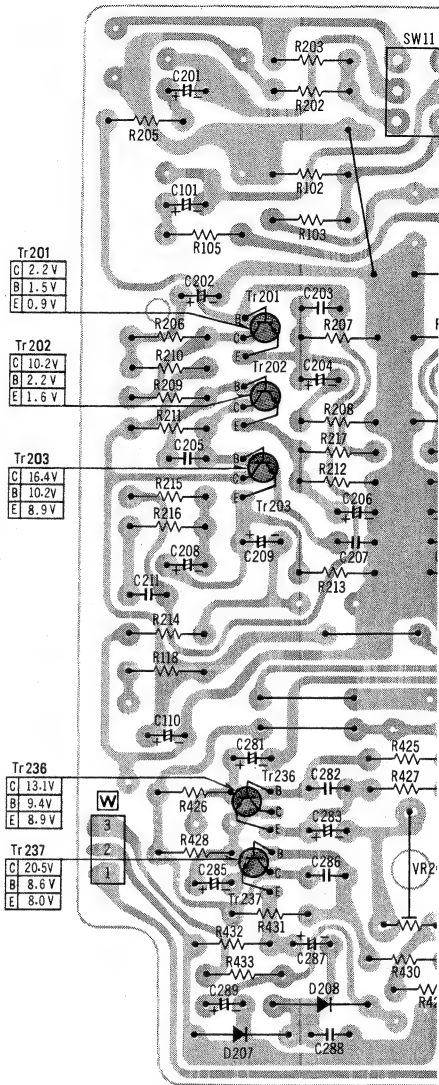


# CIRCUIT BOARD

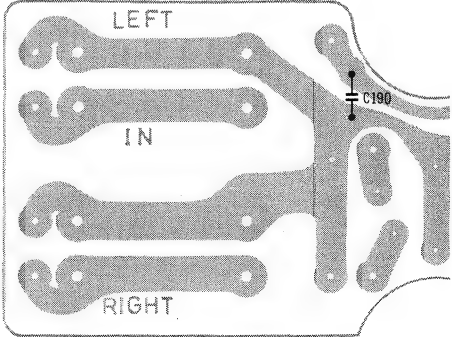
## Main Amp



## Mic and Meter Amp



## Jack





# REPLACEMENT PARTS LIST MODEL RS-1700 (Technics)

NOTE:  indicated that only parts specified by the manufacturer be used for safety.

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
<b>MECHANICAL PARTS</b>				
M1	XTN4+10B	Tapping Screw	15	
M2	QXH0273	Function Button Holding Plate Assembly	1	
M3	XUC3FT	Stop Ring	30	
M4	QMN2142	Shaft	1	
M5	QBG1132	Stopper Rubber	1	
M6	XTN3+12B	Tapping Screw	3	
M7	XSN3+6S	Screw	4	
M8	QXB0504	Fast Forward Button Assembly	1	
M9	QXB0502	Forward Playback Button Assembly	1	
M10	QXB0506	Stop Button Assembly	1	
M11	QXB0503	Reverse Playback Button Assembly	1	
M12	QXB0505	Rewind Button Assembly	1	
M13	QMC0050	Collar	1	
M14	QBW2019	Washer	9	
M15	QXB0501	Pause Button Assembly	1	
M16	QXB0500	Record Button Assembly	1	
M17	QML3024	Switch Arm	1	
M18	QXA0608	Counter Holding Plate	1	
M19	QMF1862	Stopper Plate	1	
M20	XTN3+8B	Screw	6	
M21	QBT1601	Slide Plate Spring	1	
M22	QGO1284	Cue Button-1	1	
M23	QDC0087	Counter	1	
M24	XUC5FT	Stop Ring	2	
M25	QXL1148	Shifter Arm Assembly	1	
M26	XSN3+6S	Screw	5	
M27	XWC3B	Washer	7	
M28	QBT1239	Spring	2	
M29	QMH2004	Cue Holder	1	
M30	QXA0606	Angle (L) Assembly	1	
M31	QMR1571	Rod (L)	1	
M32	QME0147	Brake Plunger	2	
M33	QBT1420	Recording Lever Spring	2	
M34	QBT1687	Spring	2	
M35	QXL1111	Arm (L)	1	
M36	QXL1108	Sub Arm (L) Assembly	1	
M37	QXL1112	Brake Lever Assembly	2	
M38	QBT1322	Spring	2	
M39	QMF1929	Spring Hook Plate	1	
M40	QMN2139	Shaft	1	
M41	QXL1103	Sub Arm (L) Assembly	1	
M42	XWG4	Washer	4	
M43	QMN2140	Shaft	2	
M44	QBC1071	Spring	2	
M45	XSN2+12	Screw	2	
M46	XWA2BFZ	Washer	2	
M47	QBT1664	Spring	2	
M48	XSN26+6	Screw	2	
M49	QBK1217	Isolation Sheet	2	
M50	XWA26B	Washer	2	
M51	QMF1682	Switch Holding Plate	2	
M52	XUC2FT	Stop Ring	4	
M53	QDP1704	Roller	2	
M54	XUC5FT	Stop Ring	7	
M55	QXL1098	Pressure Roller Lever Assembly	2	
M56	QMC0053	Spacer	2	
M57	QMS2428	Shaft	2	
M58	QBW0034	Washer	4	
M60	XVE5C30FZS	Hexagon Screw	3	
M61	QXH0268	Flywheel Cover	1	
M62	QXS1090Z	Capstan Motor Assembly	1	

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	
M63	QMA3193	Angle	1		
M64	QXL1149	Shifter Arm (R) Assembly	1		
M65	QXL1104	Sub Arm (R) Assembly	1		
M66	QMA2955	Cover Angle	1		
M67	QXH0248	Masking Plate	1		
M68	QDP1702	Connection Pulley	1		
M69	QDB0173	Counter Belt-A	1		
M70	QDB0215	Counter Belt-B	1		
M71	QMF1947	Connector Holding Plate	1		
M72	XWA4	Washer	2		
M73	XSN4+30S	Screw	2		
M74	QXH0258	Tension Lever (R) Holding Plate	1		
M75	QMC0052	Spacer	2		
M76	QBW2022	Washer	4		
M77	QXL1106	Tension Lever (R) Assembly	1		
M78	XUC4FT	Stop Ring	3		
M79	QBT1843	Spring	2		
M80	QMA2984	Angle	1		
M81	QNQ1069	Nut	2		
M82	QXR0307	Air Damper Rod (R) Assembly	1		
M83	QXQ0095	Air Damper (R) Assembly	1		
M84	QXH0257	Tension Lever (L) Holding Plate	1		
M85	QXL1105	Tension Lever (L) Assembly	1		
M86	QMA2985	Angle	1		
M87	QXR0308	Air Damper Rod (L) Assembly	1		
M88	QXQ0096	Air Damper (L) Assembly	1		
M89	QMF1852	Adjustment Plate	1		
M90	QBW2023	Washer	1		
M91	QML3007	Cue Lever	1		
M92	QBN1346	Spring	1		
M93	QMR1531	Connecting Rod	1		
M94	QXH02F9	Meter Holding Plate	1		

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
M125	XSN2+4	Screw	4		R26, 27, 28	ERD25TJ102	Carbon Resistor	3	SD SUPPLY
M126	XWQ2FZ	Washer	4		R29	ERD25TJ103	"	1	"
M127	QBC1180	Spring	12		R30	ERD25TJ472	"	1	"
M128	QMG0029	Tape Guide	2		R31, 32	ERD25TJ102	"	2	"
M129	QMA2929	Angle	1		R33	ERD25TJ103	"	1	"
M130	XSS26+6BV	Screw	2		R34	ERD25TJ102	"	1	"
M131	QNQ1069	Nut	2		R35	ERD25TJ474	"	1	"
M132	QHQ1248	Screw	14						
M133	QMK1680	Head Base Plate	1						
<b>RESISTORS</b>									
R1	ERD25TJ102	Carbon Resistor	1	SD SUPPLY	R36	ERD25TJ102	"	1	"
R2	ERD25TJ100	"	1	"	R37	ERD25TJ104	"	1	"
R3	ERD25TJ102	"	1	"	R38	ERD25TJ822	"	1	"
R4	ERD25TJ100	"	1	"	R39	ERD25TJ222	"	1	"
R5	ERD25TJ102	"	1	"	R40	ERD25TJ562	"	1	"
R6	ERD25TJ100	"	1	"	R41	ERD25TJ221	"	1	"
R7	ERD25TJ102	"	1	"	R42	ERD25TJ273	"	1	"
R8	ERD25TJ100	"	1	"	R43	ERD25TJ104	"	1	"
R9	ERD25TJ102	"	1	"	R44, 45	ERD25TJ273	"	2	"
R10	ERD25TJ100	"	1	"	R46, 47, 48, 49	ERD25TJ562	"	4	"
R11	ERD25TJ102	"	1	"	R50	ERD25TJ222	"	1	"
R12	ERD25TJ100	"	1	"	R51, 52	ERD25TJ103	"	2	"
R13	ERD25TJ102	"	1	"	R53	ERD25TJ473	"	1	"
R14	ERD25TJ100	"	1	"	R54	ERD25TJ222	"	1	"
R15	ERD25TJ102	"	1	"	R55, 56	ERD25TJ103	"	2	"
R16	ERD25TJ562	"	1	"	R57	ERD25TJ153	"	1	"
R17	ERD25TJ151	"	1	"	R58, 59	ERD25TJ471	"	2	"
R18	ERD25TJ102	"	1	"	R60	ERD25TJ103	"	1	"
R19	ERD25TJ100	"	1	"	R61, 62	ERD25TJ273	"	2	"
R20	ERD25TJ102	"	1	"	R63	ERD25TJ474	"	1	"
R21, 22, 23	ERD25TJ102	"	1	"	R64	ERD25TJ102	"	1	"
R24	ERD25TJ273	"	3	"	R65, 66, 67, 68	ERD25TJ103	"	4	"
R25	ERD25TJ103	"	1	"	R69	ERD25TJ102	"	1	"
		"	1	"	R70	ERD25TJ103	"	1	"
		"	1	"	R71	ERD25TJ102	"	1	"



Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks		Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	
R72, 73, 74, 75	ERD25TJ103	Carbon Resistor	4	SD SUPPLY		R112	ERD25TJ182	Carbon Resistor	1	SD SUPPLY	
R76, 77	ERD25TJ334	"	2	"		R113	ERD25TJ472	"	1	"	
R78	ERD25TJ103	"	1	"		R114	ERD25TJ273	"	1	"	
R79	ERD25TJ273	"	1	"							
R80, 81	ERD25TJ103	"	2	"		R115	ERD25TJ682	"	1	"	
R82	ERD25TJ273	"	1	"		R116	ERD25TJ101	"	1	"	
R83	ERD25TJ103	"	1	"		R117	ERD25TJ224	"	1	"	
R84	ERD25TJ273	"	1	"		R118	ERG12ANJ471	Metal-oxide Resistor	1	"	
R85	ERD25TJ103	"	1	"		R121	ERD25TJ101	Carbon Resistor	1	"	
R86	ERD25TJ473	"	1	"		R122	ERD25TJ333	"	1	"	
R87	ERD25TJ222	"	1	"		R123	ERD25TJ104	"	1	"	
R88	ERD25TJ151	"	1	"		R124	ERD25TJ472	"	1	"	
R89	ERD25TJ152	"	1	"		R125	ERD25TJ272	"	1	"	
R90	ERD25TJ104	"	1	"		R126	ERD25TJ102	"	1	"	
R91	ERD25TJ562	"	1	"		R127	ERD25TJ333	"	1	"	
R92	ERD25TJ103	"	1	"		R128	ERD25TJ392	"	1	"	
R93	ERD25TJ473	"	1	"		R129, 130	ERD25TJ104	"	2	"	
R94	ERD25TJ103	"	1	"		R131	ERD25TJ101	"	1	"	
R95	ERD25TJ472	"	1	"		R132	ERD25TJ682	"	1	"	
R96	ERD25TJ562	"	1	"		R133, 134	ERD25TJ182	"	2	"	
R97	ERD25TJ473	"	1	"		R135	ERD25TJ682	"	1	"	
R98	ERD25TJ472	"	1	"		R136	ERD25TJ103	"	1	"	
R99	ERD25TJ562	"	1	"		R137	ERD25TJ102	"	1	"	
R101, 102	ERD25TJ471	"	2	"		R138	ERD25TJ103	"	1	"	
R103	ERD25TJ392	"	1	"							
R105	ERD25TJ101	"	1	"		R139	ERD25TJ101	"	1	"	
R106	ERD25TJ153	"	1	"		R140	ERD25TJ154	"	1	"	
R107	ERD25TJ822	"	1	"		R141	ERD25TJ273	"	1	"	
R108	ERD25TJ271	"	1	"		R142	ERD25TJ472	"	1	"	
R109	ERD25TJ102	"	1	"		R143	ERD25TJ152	"	1	"	
R110	ERD25TJ104	"	1	"		R144	ERD25TJ822	"	1	"	
R111	ERD25TJ682	"	1	"		R145	ERD25TJ152	"	1	"	
						R146, 147	ERD25TJ102	"	2	"	
						R148	ERD25TJ332	"	1	"	

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	
R149	ERD25TJ182	Carbon Resistor 1.8KΩ 1/4W	1	SD SUPPLY	
R150	ERD25TJ184	" 180KΩ 1/4W	1	"	
R151	ERD25TJ332	" 3.2KΩ 1/4W	1	"	
R152	ERD25TJ273	" 27KΩ 1/4W	1	"	
R153	ERD25TJ103	" 10KΩ 1/4W	1	"	
R154	ERD25TJ122	" 1.2KΩ 1/4W	1	"	
R155	ERD25TJ334	" 330KΩ 1/4W	1	"	
R156	ERD25TJ823	" 82KΩ 1/4W	1	"	
R157	ERD25TJ153	" 15KΩ 1/4W	1	"	
R158	ERD25TJ562	" 5.6KΩ 1/4W	1	"	
R159	ERD25TJ472	" 4.7KΩ 1/4W	1	"	
R160	ERD25TJ222	" 2.2KΩ 1/4W	1	"	
R161	ERD25TJ123	" 12KΩ 1/4W	1	"	
R162, 163	ERD25TJ102	" 1KΩ 1/4W	2	"	
R164	ERD25TJ101	" 100Ω 1/4W	1	"	
R165	ERD25TJ823	" 82KΩ 1/4W	1	"	
R166	ERD25TJ393	" 39KΩ 1/4W	1	"	
R167, 168	ERG12ANJ470	Metal-oxide Resistor *47Ω 1/2W	2	"	
R169	ERD25TJ152	Carbon Resistor 1.5KΩ 1/4W	1	"	
R170	ERD25TJ272	" 2.7KΩ 1/4W	1	"	
R171	ERD25TJ154	" 150KΩ 1/4W	1	"	
R172	ERD25TJ101	" 100Ω 1/4W	1	"	
R173	ERD25TJ153	" 15KΩ 1/4W	1	"	
R174	ERD25TJ123	" 12KΩ 1/4W	1	"	
R175	ERD25TJ390	" 39Ω 1/4W	1	"	
R176	ERD25TJ104	" 100KΩ 1/4W	1	"	
R177	ERD25TJ103	" 10KΩ 1/4W	1	"	
R178	ERD25TJ222	" 2.2KΩ 1/4W	1	"	
R179	ERD25TJ394	" 390KΩ 1/4W	1	"	
R180	ERD25TJ332	" 3.3KΩ 1/4W	1	"	
R181	ERD25TJ101	" 100Ω 1/4W	1	"	
	— Cont. —				
R182	ERD25TJ683	Carbon Resistor 68KΩ 1/4W	1	SD SUPPLY	
R183	ERD25TJ471	" 470Ω 1/4W	1	"	
R184	ERD25TJ102	" 1KΩ 1/4W	1	"	
R185	ERD25TJ822	" 8.2KΩ 1/4W	1	"	
R187	ERD25TJ682	" 6.8KΩ 1/4W	1	"	
R188	ERD25TJ474	" 470KΩ 1/4W	1	"	
R189	ERD25TJ122	" 1.2KΩ 1/4W	1	"	
R190	ERD25TJ472	" 4.7KΩ 1/4W	1	"	
R191	ERD25TJ104	" 100KΩ 1/4W	1	"	
R192	ERG1ANJ151	Metal-oxide Resistor 150Ω 1W	1	"	
R193	ERG12ANJ271	" 270Ω 1/2W	1	"	
R194	ERD25TJ153	Carbon Resistor 15KΩ 1/4W	1	"	
R195	ERG1ANJ681	Metal-oxide Resistor 680Ω 1W	1	"	
R196	ERD25TJ273	Carbon Resistor 27KΩ 1/4W	1	"	
R197	ERD25TJ332	" 3.3KΩ 1/4W	1	"	
R201, 202	ERD25TJ471	" 470Ω 1/4W	2	"	
R203	ERD25TJ392	" 3.9KΩ 1/4W	1	"	
R205	ERD25TJ101	" 100Ω 1/4W	1	"	
R206	ERD25TJ153	" 15KΩ 1/4W	1	"	
R207	ERD25TJ822	" 8.2KΩ 1/4W	1	"	
R208	ERD25TJ271	" 270Ω 1/4W	1	"	
R209	ERD25TJ102	" 1KΩ 1/4W	1	"	
R210	ERD25TJ104	" 100KΩ 1/4W	1	"	
R211	ERD25TJ682	" 6.8KΩ 1/4W	1	"	
R212	ERD25TJ182	" 1.8KΩ 1/4W	1	"	
R213	ERD25TJ472	" 4.7KΩ 1/4W	1	"	
R214	ERD25TJ273	" 27KΩ 1/4W	1	"	
R215	ERD25TJ682	" 6.8KΩ 1/4W	1	"	
R216	ERD25TJ101	" 100Ω 1/4W	1	"	
R217	ERD25TJ224	" 220KΩ 1/4W	1	"	
R221	ERD25TJ101	" 100Ω 1/4W	1	"	
R222	ERD25TJ333	" 33KΩ 1/4W	1	"	

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	
				Pcs/ Set	Remarks
R223	ERD25TJ104	Carbon Resistor 100KΩ 1/4W	1	1	SD SUPPLY
R224	ERD25TJ472	" 4.7KΩ 1/4W	1	1	"
R225	ERD25TJ272	" 2.7KΩ 1/4W	1	1	"
R226	ERD25TJ102	" 1KΩ 1/4W	1	1	"
R227	ERD25TJ333	" 33KΩ 1/4W	1	1	"
R228	ERD25TJ392	" 3.9KΩ 1/4W	1	1	"
R229, 230	ERD25TJ104	" 100KΩ 1/4W	2	2	"
R231	ERD25TJ101	" 100Ω 1/4W	1	1	"
R232	ERD25TJ682	" 6.8KΩ 1/4W	1	1	"
R233, 234	ERD25TJ182	" 1.8KΩ 1/4W	2	2	"
R235	ERD25TJ682	" 6.8KΩ 1/4W	1	1	"
R236	ERD25TJ103	" 10KΩ 1/4W	1	1	"
R237	ERD25TJ102	" 1KΩ 1/4W	1	1	"
R238	ERD25TJ103	" 10KΩ 1/4W	1	1	"
R239	ERD25TJ101	" 100Ω 1/4W	1	1	"
R240	ERD25TJ154	" 150KΩ 1/4W	1	1	"
R241	ERD25TJ273	" 27KΩ 1/4W	1	1	"
R242	ERD25TJ472	" 4.7KΩ 1/4W	1	1	"
R243	ERD25TJ152	" 1.5KΩ 1/4W	1	1	"
R244	ERD25TJ822	" 8.2KΩ 1/4W	1	1	"
R245	ERD25TJ152	" 1.5KΩ 1/4W	1	1	"
R246	ERD25TJ102	" 1KΩ 1/4W	1	1	"
R251	ERD25TJ332	" 3.3KΩ 1/4W	1	1	"
R252	ERD25TJ273	" 27KΩ 1/4W	1	1	"
R253	ERD25TJ103	" 10KΩ 1/4W	1	1	"
R254	ERD25TJ122	" 1.2KΩ 1/4W	1	1	"
R255	ERD25TJ334	" 330KΩ 1/4W	1	1	"
R256	ERD25TJ823	" 82KΩ 1/4W	1	1	"
R257	ERD25TJ153	" 15KΩ 1/4W	1	1	"
R258	ERD25TJ562	" 5.6KΩ 1/4W	1	1	"
R259	ERD25TJ472	" 4.7KΩ 1/4W	1	1	"
R260	ERD25TJ222	" 2.2KΩ 1/4W	1	1	"
R261	ERD25TJ123	Carbon Resistor 12KΩ 1/4W	1	1	SD SUPPLY
R262, 263	ERD25TJ102	" 1KΩ 1/4W	2	2	"
R264	ERD25TJ101	" 100Ω 1/4W	1	1	"
R265	ERD25TJ823	" 82KΩ 1/4W	1	1	"
R266	ERD25TJ393	" 39KΩ 1/4W	1	1	"
R267, 268	ERG12ANJ470	Metal-oxide Resistor 47Ω 1/2W	2	2	"
R269	ERD25TJ152	Carbon Resistor 1.5KΩ 1/4W	1	1	"
R271	ERD25TJ154	" 150KΩ 1/4W	1	1	"
R272	ERD25TJ101	" 100Ω 1/4W	1	1	"
R273	ERD25TJ153	" 15KΩ 1/4W	1	1	"
R274	ERD25TJ123	" 12KΩ 1/4W	1	1	"
R275	ERD25TJ390	" 39Ω 1/4W	1	1	"
R276	ERD25TJ104	" 100KΩ 1/4W	1	1	"
R277	ERD25TJ103	" 10KΩ 1/4W	1	1	"
R278	ERD25TJ222	" 2.2KΩ 1/4W	1	1	"
R279	ERD25TJ394	" 390KΩ 1/4W	1	1	"
R280	ERD25TJ332	" 3.3KΩ 1/4W	1	1	"
R281	ERD25TJ101	" 100Ω 1/4W	1	1	"
R282	ERD25TJ683	" 68KΩ 1/4W	1	1	"
R283	ERD25TJ471	" 470Ω 1/4W	1	1	"
R284	ERD25TJ102	" 1KΩ 1/4W	1	1	"
R285	ERD25TJ822	" 8.2KΩ 1/4W	1	1	"
R287	ERD25TJ682	" 6.8KΩ 1/4W	1	1	"
R288	ERD25TJ474	" 470KΩ 1/4W	1	1	"
R289	ERD25TJ122	" 1.2KΩ 1/4W	1	1	"
R290	ERD25TJ472	" 4.7KΩ 1/4W	1	1	"
R291	ERD25TJ104	" 100KΩ 1/4W	1	1	"
R293	ERG12ANJ271	Metal-oxide Resistor 270Ω 1/2W	1	1	"
R294	ERD25TJ153	Carbon Resistor 15KΩ 1/4W	1	1	"
R296	ERD25TJ273	" 27KΩ 1/4W	1	1	"
R297	ERD25TJ332	" 3.3KΩ 1/4W	1	1	"
R301	ERD25TJ394	" 390KΩ 1/4W	1	1	"

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	
R302	ERD25TJ223	Carbon Resistor	1	SD SUPPLY	
R303	ERD25TJ103	"	1	"	
R304	ERD25TJ153	"	1	"	
R305	ERD25TJ221	"	1	"	
R306	ERD25TJ392	"	1	"	
R307	ERD25TJ271	"	1	"	
R308	ERD25TJ273	"	1	"	
R309, 310	ERD25TJ102	"	2	"	
R312	ERD25TJ103	"	1	"	
R313	ERD25TJ154	"	1	"	
R314	ERD25TJ474	"	1	"	
R315	ERD25TJ153	"	1	"	
R316	ERD25TJ821	"	1	"	
R317, 321	ERD25TJ271	"	2	"	
R323	ERD25TJ822	"	1	"	
R324	ERD25TJ332	"	1	"	
R325, 326	ERD25TJ474	"	2	"	
R327	ERD25TJ103	"	1	"	
R328	ERD25TJ822	"	1	"	
R329	ERD25TJ221	"	1	"	
R330, 331	ERD25TJ154	"	2	"	
R332	ERD25TJ102	"	1	"	
R333	ERD25TJ123	"	1	"	
R334, 335, 336, 337, 338, 339, 340, 341, 342	ERD25TJ474	"	9	"	
R343, 344, 345, 346, 347, 348, 349, 350, 351	ERD25TJ471	"	9	"	
R352	ERD25TJ151	"	1	"	
R353	ERD25TJ330	"	1	"	
R354	ERD25TJ100	"	1	"	
R355	ERGIANJ390	Metal-oxide Resistor	1	"	
R356	ERD25TJ561	Carbon Resistor	1	"	
R357	ERD25TJ103	Carbon Resistor	1	SD SUPPLY	
R358	ERD25TJ393	"	1	"	
R359	ERD25TJ152	"	1	"	
R360	ERD25TJ561	"	1	"	
R361, 362	ERD25TJ470	"	2	"	
R363	ERD25TJ102	"	1	"	
R364, 365	ERD25TJ222	"	2	"	
R366	ERD25TJ562	"	1	"	
R367	ERD25TJ561	"	1	"	
R368	ERGI2ANJ471	Metal-oxide Resistor	1	"	
R369	ERGI2ANJ561	"	1	"	
R370	ERD25TJ122	"	1	"	
R401	ERD25TJ394	Carbon Resistor	1	"	
R402	ERD25TJ223	"	1	"	
R403	ERD25TJ103	"	1	"	
R404	ERD25TJ153	"	1	"	
R405	ERD25TJ221	"	1	"	
R406	ERD25TJ392	"	1	"	
R407	ERD25TJ271	"	1	"	
R408	ERD25TJ273	"	1	"	
R409, 410	ERD25TJ102	"	2	"	
R412	ERD25TJ103	"	1	"	
R413	ERD25TJ154	"	1	"	
R414	ERD25TJ474	"	1	"	
R415	ERD25TJ153	"	1	"	
R416	ERGI2ANJ821	Metal-oxide Resistor	1	"	
R417, 421	ERD25TJ271	Carbon Resistor	2	"	
R423	ERD25TJ822	"	1	"	
R424	ERD25TJ332	"	1	"	
R425, 426	ERD25TJ474	"	2	"	
R427	ERD25TJ103	"	1	"	
R428	ERD25TJ822	"	1	"	



Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks		Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	
R429	ERD25TJ221	Carbon Resistor	1	SD SUPPLY		R553	ERG12ANJ560	Metal-oxide Resistor	1	SD SUPPLY	
R430, 431	ERD25TJ154	"	2	"		R554	ERD25TJ6R8	Carbon Resistor	1	"	
R432	ERD25TJ102	"	1	"		R555	ERG1ANJ221	Metal-oxide Resistor	1	"	
R433	ERD25TJ123	"	1	"		R556	ERG1ANJ102	"	1	"	
R434, 435, 436, 437, 438, 439, 440, 441, 442	ERD25TJ474	"	9	"		R557, 558	ERG1ANJ120	"	2	"	
R443, 444, 445, 446, 447, 448, 449, 450, 451	ERD25TJ471	"	9	"		R559	ERG2ANJ122	"	1	"	
R452	ERD25TJ151	"	1	"		R561	ERD25TJ223	Carbon Resistor	1	"	
R453	ERD25TJ330	"	1	"		R562	ERD25TJ472	"	1	"	
R454	ERD25TJ100	"	1	"		R563	ERD25TJ392	"	1	"	
R501, 502	ERD25TJ472	"	2	"		R564	ERD25TJ681	"	1	"	
R503	ERD25TJ221	"	1	"		R565	ERD25TJ272	"	1	"	
R504	ERD25TJ820	"	1	"		R566	ERD25TJ332	"	1	"	
R505	ERG12ANJ821	Metal-oxide Resistor	1	"		R567	ERD25TJ562	"	1	"	
R506	ERD25TJ223	Carbon Resistor	1	"		R568	ERD25TJ103	"	1	"	
R507	ERD25TJ681	"	1	"		R569, 570	ERG12ANJ151	Metal-oxide Resistor	2	"	
R508, 509	ERD25TJ470	"	2	"		R571	ERD25TJ563	Carbon Resistor	1	"	
R510	ERD25TJ223	"	1	"		R572	ERD25TJ273	"	1	"	
R511	ERD25TJ222	"	1	"		R573	ERD25TJ333	"	1	"	
R512, 513	ERD25TJ561	"	2	"		R574	ERG12ANJ681	Metal-oxide Resistor	1	"	
R531, 532	ERD25TJ472	"	2	"		R575	ERD25TJ562	Carbon Resistor	1	"	
R533	ERD25TJ221	"	1	"		R576	ERD25TJ103	"	1	"	
R534	ERD25TJ820	"	1	"		R577, 578, 579, 580, 581, 581	ERD25TJ102	"	6	"	
R535	ERG12ANJ821	Metal-oxide Resistor	1	"		R583	ERD25TJ562	"	1	"	
R536	ERD25TJ223	Carbon Resistor	1	"		R584, 585, 586, 587, 588, 589	ERD25TJ102	"	6	"	
R537	ERD25TJ681	"	1	"		R590, 591	ERG1ANJ223	Metal-oxide Resistor	2	"	
R538, 539	ERD25TJ470	"	2	"		R592, 593	ERG12ANJ123	"	2	"	
R540	ERD25TJ223	"	1	"		R594, 595, 596, 597	ERD25TJ472	Carbon Resistor	4	"	
R541	ERD25TJ222	"	1	"		R598	ERD25TJ100	"	1	"	
R551	ERD25TJ472	"	1	"		R599	ERX12ANJ100	Metal-oxide Resistor	1	"	
R552	ERD25TJ682	"	1	"							

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	
R601	ERD25TJ223	Carbon Resistor 22KΩ 1/4W	1	SD SUPPLY	
R602	ERG12ANJ821	Metal-oxide Resistor 820Ω 1/2W	1	"	
R603	ERD25TJ392	Carbon Resistor 3.9KΩ 1/4W	1	"	
R604	ERD25TJ222	" 2.2KΩ 1/4W	1	"	
R605	ERD25TJ472	" 4.7KΩ 1/4W	1	"	
R606	ERD25TJ222	" 2.2KΩ 1/4W	1	"	
R607	ERG12ANJ561	Metal-oxide Resistor 560Ω 1/2W	1	"	
R608	ERD25TJ103	Carbon Resistor 10KΩ 1/4W	1	"	
R609	ERD25TJ223	" 22KΩ 1/4W	1	"	
R610, 611	ERG12ANJ821	Metal-oxide Resistor 820Ω 1/2W	2	"	
R612	ERD25TJ222	Carbon Resistor 2.2KΩ 1/4W	1	"	
R613	ERD25TJ472	" 4.7KΩ 1/4W	1	"	
R614	ERD25TJ222	" 2.2KΩ 1/4W	1	"	
R615	ERD25TJ223	" 22KΩ 1/4W	1	"	
R616	ERD25TJ472	" 4.7KΩ 1/4W	1	"	
R617	ERG1ANJ332	Metal-oxide Resistor 3.3KΩ 1W	1	"	
R618	ERD25TJ472	Carbon Resistor 4.7KΩ 1/4W	1	"	
R619	ERD25TJ273	" 27KΩ 1/4W	1	"	
R651	ERD25TJ472	" 4.7KΩ 1/4W	1	"	
R652	ERD25TJ471	" 470Ω 1/4W	1	"	
R653	ERD25TJ681	" 680Ω 1/4W	1	"	
R654	ERF52J221	Cement Resistor 220Ω 1W	1	SD SUPPLY	
R655	ERD25TJ472	Carbon Resistor 4.7KΩ 1/4W	1	"	
R656	ERD25TJ471	" 470Ω 1/4W	1	"	
R657	ERD25TJ681	" 680Ω 1/4W	1	"	
R658	ERF7J680	Cement Resistor 68Ω 1W	1	"	
R701, 702, 703, 704	ERD25TJ103	Carbon Resistor 10KΩ 1/4W	4	SD SUPPLY	
R705, 706	ERD25TJ472	" 4.7KΩ 1/4W	2	"	
R707, 708	ERD25TJ152	" 1.5KΩ 1/4W	2	"	
R709, 710, 711, 712, 713, 714	ERD25TJ274	" 270KΩ 1/4W	6	"	

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	
R829, 830, 831, 832	ERD25TJ103	Carbon Resistor	4	10KΩ 1/4W	SD SUPPLY
R833, 834	ERD25TJ100	"	2	10Ω 1/4W	"
R835, 836	ERD25TJ103	"	2	10KΩ 1/4W	"
R837, 838	ERD25TJ273	"	2	27KΩ 1/4W	"
R839, 840	ERD25TJ473	"	2	47KΩ 1/4W	"
R841, 842	ERD25TJ273	"	2	27KΩ 1/4W	"
R843, 844	ERD25TJ272	"	2	27KΩ 1/4W	"
R845, 846	ERD25TJ103	"	2	10KΩ 1/4W	"
R847, 848	ERD25TJ273	"	2	27KΩ 1/4W	"
R849, 850	ERD25TJ823	"	2	82KΩ 1/4W	"
R851, 852	ERD25TJ272	"	2	27KΩ 1/4W	"
R853, 854	ERD25TJ103	"	2	10KΩ 1/4W	"
R855, 856	ERD25TJ822	"	2	8.2KΩ 1/4W	"
R857, 858	ERD25TJ272	"	2	27KΩ 1/4W	"
R859, 860	ERD25TJ103	"	2	10KΩ 1/4W	"
R861, 862	ERD25TJ394	"	2	390KΩ 1/4W	"
R863, 864	ERD25TJ823	"	2	82KΩ 1/4W	"
R865, 866	ERD25TJ273	"	2	27KΩ 1/4W	"
R867, 868	ERD25TJ153	"	2	15KΩ 1/4W	"
R869, 870	ERD25TJ224	"	2	220KΩ 1/4W	"
R881	ERD25TJ103	"	1	10KΩ 1/4W	"
R882	ERD25TJ184	"	1	180KΩ 1/4W	"
R883	ERD25TJ473	"	1	47KΩ 1/4W	"
R884, 885	ERD25TJ273	"	2	27KΩ 1/4W	"
R892	ERD25TJ272	"	1	27KΩ 1/4W	"
R893	ERD25TJ103	"	1	10KΩ 1/4W	"
R894	ERD25TJ471	"	1	470Ω 1/4W	"
R896	ERD25TJ103	"	1	10KΩ 1/4W	"
R897	ERD25TJ473	"	1	47KΩ 1/4W	"
R898	ERD25TJ273	"	1	27KΩ 1/4W	"
R901, 902	ERD25TJ102	"	2	1KΩ 1/4W	"
R903	ERD25TJ473	Carbon Resistor	1	47KΩ 1/4W	SD SUPPLY
R904	ERD25TJ472	"	1	4.7KΩ 1/4W	"
R905	ERD25TJ333	"	1	33KΩ 1/4W	"
R906	ERD25TJ223	"	1	22KΩ 1/4W	"
R907	ERD25TJ331	"	1	330Ω 1/4W	"
R908	ERD25TJ561	"	1	560Ω 1/4W	"
R909	ERD25TJ102	"	1	1KΩ 1/4W	"
R911	ERD25TJ683	"	1	68KΩ 1/4W	"
R912	ERD25TJ393	"	1	39KΩ 1/4W	"
R913	ERD25TJ273	"	1	27KΩ 1/4W	"
R914	ERD25TJ223	"	1	22KΩ 1/4W	"
R915, 917	ERD25TJ472	"	2	4.7KΩ 1/4W	"
R918	ERD25TJ393	"	1	39KΩ 1/4W	"
R919	ERD25TJ222	"	1	2.2KΩ 1/4W	"
R920	ERD25TJ103	"	1	10KΩ 1/4W	"
R926	ERD25TJ104	"	1	100KΩ 1/4W	"
R927	ERD25TJ103	"	1	10KΩ 1/4W	"
R928	ERD25TJ183	"	1	18KΩ 1/4W	"
R929	ERD25TJ823	"	1	82KΩ 1/4W	"
R930	ERD25TJ124	"	1	120KΩ 1/4W	"
R931	ERD25TJ473	"	1	47KΩ 1/4W	"
R932	ERD25TJ124	"	1	120KΩ 1/4W	"
R933	ERD25TJ682	"	1	6.8KΩ 1/4W	"
R934	ERD25TJ103	"	1	10KΩ 1/4W	"
R935	ERD25TJ222	"	1	2.2KΩ 1/4W	"
R936	ERD25TJ562	"	1	5.6KΩ 1/4W	"
R937	ERD25TJ122	"	1	1.2KΩ 1/4W	"
R938	ERD25TJ272	"	1	2.7KΩ 1/4W	"
R939	ERD25TJ472	"	1	4.7KΩ 1/4W	"
R941, 942	ERD25TJ103	"	2	10KΩ 1/4W	"
R943	ERD25TJ223	"	1	22KΩ 1/4W	"
R944	ERD25TJ182	"	1	1.8KΩ 1/4W	"

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	
R945	ERD25TJ392	Carbon Resistor 3.9KΩ 1/4W	1	SD SUPPLY	
R946	ERD25TJ106	" 10MΩ 1/4W	1	"	
R947	ERD25TJ103	" 10KΩ 1/4W	1	"	
R948	ERD25TJ820	" 82Ω 1/4W	1	"	
R949	ERGIANJ331	Metal-oxide Resistor 330Ω 1W	1	"	
R951	ERD25TJ183	Carbon Resistor 18KΩ 1/4W	1	"	
R952	ERD25TJ103	" 10KΩ 1/4W	1	"	
R953	ERD25TJ105	" 1MΩ 1/4W	1	"	
R954	ERD25TJ103	" 10KΩ 1/4W	1	"	
R955	ERD25TJ105	" 1MΩ 1/4W	1	"	
R956, 957, 958, 959, 960, 966, 967, 968, 969	ERD25TJ103	" 10KΩ 1/4W	9	"	
R970, 971, 972	ERGI2ANJ101	Metal-oxide Resistor 100Ω 1/2W	3	"	
R974	ERXIANJ95	" 1.5Ω 1W	1	"	
R975, 976, 977	ERD25TJ270	Carbon Resistor 27Ω 1/4W	3	"	
R978, 980	ERD25TJ103	" 10KΩ 1/4W	2	"	
R981, 982, 983	ERD25TJ820	Metal-oxide Resistor 82Ω 1/2W	3	"	
R984, 985, 986, 987	ERD25TJ103	Carbon Resistor 10KΩ 1/4W	4	"	
R988	ERD25TJ823	" 82KΩ 1/4W	1	"	
R989	ERD25TJ183	" 18KΩ 1/4W	1	"	
R990	ERD25TJ153	" 15KΩ 1/4W	1	"	
R991	ERD25TJ104	" 100KΩ 1/4W	1	"	
R992	ERD25TJ224	" 220KΩ 1/4W	1	"	
R993, 994, 996	ERD25TJ103	" 10KΩ 1/4W	3	"	
R997	ERD25TJ223	" 22KΩ 1/4W	1	"	
R999	ERD25TJ823	" 82KΩ 1/4W	1	"	
R1001	ERD25TJ472	" 4.7KΩ 1/4W	1	"	
R1002	ERD25TJ103	Carbon Resistor 10KΩ 1/4W	1	SD SUPPLY	
R1003	ERD25TJ562	" 5.6KΩ 1/4W	1	"	
R1004	ERD25TJ473	" 47KΩ 1/4W	1	"	
R1005	ERD25TJ222	" 2.2KΩ 1/4W	1	"	
R1006	ERD25TJ330	" 33Ω 1/4W	1	"	
R1007	ERD25TJ472	" 4.7KΩ 1/4W	1	"	
R1008	ERD25TJ103	" 10KΩ 1/4W	1	"	
R1009	ERD25TJ102	" 1KΩ 1/4W	1	"	
R1010	ERD25TJ222	" 2.2KΩ 1/4W	1	"	
R1011	ERD25TJ103	" 10KΩ 1/4W	1	"	
R1012	ERD25TJ273	" 27KΩ 1/4W	1	"	
R1013	ERD25TJ103	" 10KΩ 1/4W	1	"	
R1014	ERD25TJ273	" 27KΩ 1/4W	1	"	
R1015	ERD25TJ103	" 10KΩ 1/4W	1	"	
R1016	ERD25TJ273	" 27KΩ 1/4W	1	"	
R1017	ERD25TJ103	" 10KΩ 1/4W	1	"	
R1018	ERD25TJ273	" 27KΩ 1/4W	1	"	
R1019	ERD25TJ103	" 10KΩ 1/4W	1	"	
R1020	ERD25TJ102	" 1KΩ 1/4W	1	"	
R1021	ERD25TJ100	" 10Ω 1/4W	1	"	
R1901, 1902	ERD25TJ103	" 10KΩ 1/4W	2	"	
R1903	ERD25TJ182	" 1.8KΩ 1/4W	1	"	
R1904	ERD25TJ392	" 3.9KΩ 1/4W	1	"	
R1911	ERD25TJ104	" 100KΩ 1/4W	1	"	
R1912, 1913	ERD25TJ473	" 47KΩ 1/4W	2	"	
R1914	ERD25TJ104	" 100KΩ 1/4W	1	"	
R1915, 1916	ERD25TJ473	" 47KΩ 1/4W	2	"	
<b>VARIABLE RESISTORS</b>					
VR1	EVNK0AA00B24	Semi-fixed Variable Resistor 20KΩ (B)	1		
VR101	EVNK4AA00B15	" 100KΩ (B)	1		
	— Cont. —				



Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
VR102, 103 202, 203	EVFFWAR30A24	Variable Resistor	2		C15	ECEA10V100	Electrolytic Capacitor	1	SD SUPPLY
VR104, 105	EVNK4AA00B14	Semi-fixed Variable Resistor	2		C16	ECEA6V330	"	1	"
VR106	EVNK4AA00B53	"	1		C17	ECEA16Z10	"	1	"
VR107, 207	EVFFWAR30A24	Variable Resistor	1		C18, 19	ECQM05683KZ	Mylar Capacitor	2	
VR108	EVL53AA00B52	Semi-fixed Variable Resistor	1		C20	ECEA50Z2R2	Electrolytic Capacitor	1	SD SUPPLY
VR109	EVNK4AA00B25	"	1		C21	ECEA16Z10	"	1	"
VR110	EVNK4AA00B24	"	1		C22	ECKD1H103ZF	Ceramic Capacitor	1	
VR201	EVNK4AA00B15	"	1		C23, 24	ECEA50V1	Electrolytic Capacitor	2	SD SUPPLY
VR204, 205	EVNK4AA00B14	"	2		C25	ECEA25Z4R7	"	1	"
VR206	EVNK4AA00B53	"	1		C26, 27	ECEA16V10	"	2	"
VR208	EVL53AA00B52	"	1		C28	ECQM05683KZ	Mylar Capacitor	1	
VR209	EVNK4AA00B25	"	1		C29	ECEA16V10	Electrolytic Capacitor	1	SD SUPPLY
VR210	EVNK4AA00B24	"	1		C30	ECEA16V33	"	1	"
VR501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513	EVNK4AA00B52	"	13		C31	ECEA10V100	"	1	"
VR601, 602	EVNK4AA00B13	"	2		C32	ECEA16V10	"	1	"
VR801, 802, 803, 804	EVNK0AA00B54	"	4		C33	ECQM05683KZ	Mylar Capacitor	1	
VR911	EVL50AA00B54	"	1		C34	ECKD1H103ZF	Ceramic Capacitor	1	
VR926	QVKF25B24	Variable Resistor	1		C101	EC5Z25AFIE	Tantalum Capacitor	1	
VR927	EVL50AA00B54	Semi-fixed Variable Resistor	1		C102	ECEA35V10	Electrolytic Capacitor	1	SD SUPPLY
VR928, 929	EVNK4AA00B14	"	2		C103	ECCD1H101K	Ceramic Capacitor	1	
VR966	EVNK4AA00B24	"	1		C104	ECEA10V100	Electrolytic Capacitor	1	SD SUPPLY
					C105	ECCD1H470KC	Ceramic Capacitor	1	
					C106	ECEA16V33	Electrolytic Capacitor	1	SD SUPPLY
					C107	ECKD1H471KB	Ceramic Capacitor	1	
					C108	ECEA16V33	Electrolytic Capacitor	1	SD SUPPLY
C1, 2	ECKD1H103ZF	Ceramic Capacitor	2		C109	ECEA16V10	"	1	"
C3	ECEA10V100	Electrolytic Capacitor	1	SD SUPPLY	C110	ECEA25V100	"	1	"
C4, 5, 6, 7, 8, 9, 10					C111	ECCD1H101K	Ceramic Capacitor	1	
					C113	ECEA16V10	Electrolytic Capacitor	1	SD SUPPLY
C11, 12	ECKD1H103ZF	Ceramic Capacitor	7		C114	ECEA16V220	"	1	"
C13	ECEA16V47	Electrolytic Capacitor	2	SD SUPPLY	C115	ECCD1H101K	Ceramic Capacitor	1	
					C116, 117	ECEA16V10	Electrolytic Capacitor	2	SD SUPPLY

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
C118	ECCD1H101K	Ceramic Capacitor	1	SD SUPPLY	C153	ECEA25V100	Electrolytic Capacitor	1	SD SUPPLY
C119	ECEA16V10	Electrolytic Capacitor	1		C154, 155	ECKD1H102KB	Ceramic Capacitor	2	
C120	ECEA25V100	"	1	"	C156	ECQM05152KZ	Mylar Capacitor	1	
C121	ECEA16V10	"	1	"	C157, 158	ECQM05473KZ	"	2	
C122	ECCD1H101K	Ceramic Capacitor	1	SD SUPPLY	C160	ECEA35V470	Electrolytic Capacitor	1	SD SUPPLY
C123	ECEA35V10	Electrolytic Capacitor	1		C161	ECEA50V1	"	1	"
C124	ECQM05332JZ	Mylar Capacitor	1		C162, 171	ECEA16V10	"	2	"
C125	ECEA16V10	Electrolytic Capacitor	1	SD SUPPLY	C172	ECEA16V33	"	1	"
C126	ECEA16V33	"	1	"	C173	ECKD1H102KB	Ceramic Capacitor	1	
C127	ECCD1H101K	Ceramic Capacitor	1		C174	ECCD1H101K	"	1	
C128	ECEA16V10	Electrolytic Capacitor	1	SD SUPPLY	C175	ECEA50V1	Electrolytic Capacitor	1	SD SUPPLY
C129	EQQS1681JZ	Styrol Capacitor	1		C176	ECQM05152KZ	Mylar Capacitor	1	
C130	ECCD1H101K	Ceramic Capacitor	1		C177	ECEA50V1	Electrolytic Capacitor	1	SD SUPPLY
C131	ECQM05104JZ	Mylar Capacitor	1		C178	ECEA16V33	"	1	"
C132	ECCD1H101K	Ceramic Capacitor	1		C179	ECCD1H101K	Ceramic Capacitor	1	
C133	ECEA6V330	Electrolytic Capacitor	1	SD SUPPLY	C181	ECEA50ZR1	Electrolytic Capacitor	1	SD SUPPLY
C134, 135	ECEA35V10	"	2	"	C182	ECKD1H102KB	Ceramic Capacitor	1	
C136	ECEA16V10	"	1	"	C183	ECEA10V100	Electrolytic Capacitor	1	SD SUPPLY
C137	EC5Z25AF1E	Tantalum Capacitor	1		C185	ECEA16V10	"	1	"
C138	ECCD1H101K	Ceramic Capacitor	1		C186	ECCD1H101K	Ceramic Capacitor	1	
C139	ECCD1H470KC	"	1		C187	ECEA16V10	Electrolytic Capacitor	1	SD SUPPLY
C140	ECEA6V330	Electrolytic Capacitor	1	SD SUPPLY	C188	ECQM05102KZ	Mylar Capacitor	1	
C141	ECEA16V33	"	1	"	C189	ECEA50V3R3	Electrolytic Capacitor	1	SD SUPPLY
C142	ECKD1H471KB	Ceramic Capacitor	1		C190	ECQM05822JZ	Mylar Capacitor	1	
C143	ECEA16V10	Electrolytic Capacitor	1	SD SUPPLY	C191	ECKD1H223ZF	Ceramic Capacitor	1	
C144	ECEA16V33	"	1	"	C192	ECQM05562JZ	Mylar Capacitor	1	
C145	ECQM05473JZ	Ceramic Capacitor	1		C193	ECQM05332JZ	"	1	
C146	ECKD1H471KB	"	1		C194	ECQM05183JZ	"	1	
C147, 148	ECEA25V100	Electrolytic Capacitor	2	SD SUPPLY	C195	ECQM05153JZ	"	1	
C149	ECQM05682JZ	Mylar Capacitor	1		C196	ECQM05123JZ	"	1	
C150, 151, 152	ECEA16V10	Electrolytic Capacitor	3	SD SUPPLY	C197	ECQM05333JZ	"	1	
						-- Cont. --			

Ref. No.	Part No.	Part Name & Description	Qty/ Set	Remarks	
				Qty/ Set	Remarks
C198	ECQM05273JZ	Mylar Capacitor	1		
C199	ECQM05223JZ	"	1		
C201	ECQZ25AF1E	Tantalum Capacitor	1		
C202	ECEA35V10	Electrolytic Capacitor	1	SD SUPPLY	
C203	ECCD1H101K	Ceramic Capacitor	1		
C204	ECEA10V100	Electrolytic Capacitor	1	SD SUPPLY	
C205	ECCD1H470KC	Ceramic Capacitor	1		
C206	ECEA16V33	Electrolytic Capacitor	1	SD SUPPLY	
C207	ECKD1H471KB	Ceramic Capacitor	1		
C208	ECEA16V33	Electrolytic Capacitor	1	SD SUPPLY	
C209	ECEA16V10	"	1	"	
C211	ECCD1H101K	Ceramic Capacitor	1		
C213	ECEA16V10	Electrolytic Capacitor	1	SD SUPPLY	
C214	ECEA16V220	"	1	"	
C215	ECCD1H101K	Ceramic Capacitor	1		
C216, 217	ECEA16V10	Electrolytic Capacitor	2	SD SUPPLY	
C218	ECCD1H101K	Ceramic Capacitor	1		
C219	ECEA16V10	Electrolytic Capacitor	1	SD SUPPLY	
C220	ECEA25V100	"	1	"	
C221	ECEA16V10	"	1	"	
C222	ECCD1H101K	Ceramic Capacitor	1		
C223	ECEA35V10	Electrolytic Capacitor	1	SD SUPPLY	
C224	ECQM05332JZ	Mylar Capacitor	1		
C225	ECEA16V10	Electrolytic Capacitor	1	SD SUPPLY	
C226	ECEA16V33	"	1	"	
C227	ECCD1H101K	Ceramic Capacitor	1		
C228	ECEA16V10	Electrolytic Capacitor	1	SD SUPPLY	
C229	ECQS1681JZ	Styrol Capacitor	1		
C230	ECCD1H101K	Ceramic Capacitor	1		
C231	ECQM05104JZ	Mylar Capacitor	1		
C232	ECCD1H101K	Ceramic Capacitor	1		
C233	ECEA6V330	Electrolytic Capacitor	1	SD SUPPLY	
C234, 235	ECEA35V10	Electrolytic Capacitor	2	SD SUPPLY	
C236	ECEA16V10	"	1	"	
C237	ECQZ25AF1E	Tantalum Capacitor	1		
C238	ECCD1H101K	Ceramic Capacitor	1		
C239	ECCD1H470KC	"	1		
C240	ECEA6V330	Electrolytic Capacitor	1	SD SUPPLY	
C241	ECEA16V33	"	1	"	
C242	ECKD1H471KB	Ceramic Capacitor	1		
C243	ECEA16V10	Electrolytic Capacitor	1	SD SUPPLY	
C244	ECEA16V33	"	1	"	
C245	ECQM05473JZ	Mylar Capacitor	1		
C246	ECKD1H471KB	Ceramic Capacitor	1		
C247	ECEA25V100	Electrolytic Capacitor	1	SD SUPPLY	
C249	ECQM05682JZ	Mylar Capacitor	1		
C250, 252	ECEA16V10	Electrolytic Capacitor	2	SD SUPPLY	
C256	ECQM05152KZ	Mylar Capacitor	1		
C271	ECEA16V10	Electrolytic Capacitor	1	SD SUPPLY	
C272	ECEA16V33	"	1	"	
C273	ECKD1H102KB	Ceramic Capacitor	1		
C274	ECCD1H101K	"	1		
C275	ECEA50V1	Electrolytic Capacitor	1	SD SUPPLY	
C276	ECQM05152KZ	Mylar Capacitor	1		
C277	ECEA50V1	Electrolytic Capacitor	1	SD SUPPLY	
C278	ECEA16V33	"	1	"	
C279	ECCD1H101K	Ceramic Capacitor	1		
C281	ECEA50ZR1	Electrolytic Capacitor	1	SD SUPPLY	
C282	ECKD1H102KB	Ceramic Capacitor	1		
C283	ECEA10V100	Electrolytic Capacitor	1	SD SUPPLY	
C285	ECEA16V10	"	1	"	
C286	ECCD1H101K	Ceramic Capacitor	1		
C287	ECEA16V10	Electrolytic Capacitor	1	SD SUPPLY	
C288	ECQM05102KZ	Mylar Capacitor	1		

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks		Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	
C289	ECEA50V3R3	Electrolytic Capacitor	1	SD SUPPLY		C537, 538	ECDD1H470KC	Ceramic Capacitor	2		
C290	ECQM05822JZ	Mylar Capacitor	1			C539, 540	ECQF6332KZ	Polypropylene Capacitor	2		
C292	ECQM05562JZ	"	1			C541	ECQF6102KZ	"	1		
C293	ECQM05332JZ	"	1			C542	ECQS5101J	Styrol Capacitor	1		
C294	ECQM05183JZ	"	1								
C295	ECQM05153JZ	"	1								
C296	ECQM05123JZ	"	1			C543 C544, 545	ECQS5221J	"	1		
C297	ECQM05333JZ	"	1			C601	ECQM05103KZ	Mylar Capacitor	2		
C298	ECQM05273JZ	"	1			C602	ECET50R2200S	Electrolytic Capacitor	1		SD SUPPLY
C299	ECQM05223JZ	"	1			C603	ECEA50V47	"	1		"
C501	ECEA16V10	"	1			C604	ECEA50V1	"	1		"
C502	ECQM05103KZ	Electrolytic Capacitor	1	SD SUPPLY		C605	ECKD1H103ZF	Ceramic Capacitor	1		
C503	ECQM05104KZ	Mylar Capacitor	1			C606	ECEA35V10	Electrolytic Capacitor	1		SD SUPPLY
C504	ECQF4473KZ	"	1			C607	ECEA25V100	"	1		"
C505, 506	ECQF4822KZ	Polypropylene Capacitor	2			C608	ECEA50V1	"	1		"
C507	ECEA35V10	Electrolytic Capacitor	1	SD SUPPLY			ECEA25V100	"	1		"
C511	ECEA16V10	"	1			C609	ECET50R2200S	"	1		
C512	ECQM05103KZ	"	1	"		C610	ECEA50V47	"	1		SD SUPPLY
C513	ECQM05104KZ	Mylar Capacitor	1			C611	ECEA50V1	"	1		"
C514	ECQF4473KZ	"	1			C612	ECKD1H103ZF	Ceramic Capacitor	1		
C515, 516	ECQF4822KZ	Polypropylene Capacitor	2			C614	ECEA25V330	Electrolytic Capacitor	1		SD SUPPLY
C517	ECEA35V10	"	1			C615	ECET25R2200S	"	1		
C521	ECEA16V10	Electrolytic Capacitor	1	SD SUPPLY		C616, 617	ECEA50V1	"	2		SD SUPPLY
C522	ECQM05103KZ	"	1			C618	ECEA6V220	"	1		"
C523	ECQM05104KZ	Mylar Capacitor	1			C651	ECEA16V10	"	1		"
C525, 526	ECQF4333KZ	Polypropylene Capacitor	2			C652	ECEA16V33	"	1		"
C527	ECQS5681J	Styrol Capacitor	1			C701, 702, 703, 704, 705, 706	ECQM05473KZ	Mylar Capacitor	6		
C528	EC5Z25EF10Q	Tantalum Capacitor	1			C707, 708	ECQM05103KZ	"	2		
C533	ECQM05103KZ	Mylar Capacitor	1			C709, 710	ECQM05683KZ	"	2		
C534	ECEA16V10	Electrolytic Capacitor	1	SD SUPPLY		C711, 712, 713, 714, 715, 716	ECEA25N10	Electrolytic Capacitor	6		SD SUPPLY
C535	ECQM05393KZ	Mylar Capacitor	1			C717, 718	ECQM05102KZ	Mylar Capacitor	2		
C536	ECQM05104KZ	"	1			C719, 720	ECDD1H101K	Ceramic Capacitor	2		



Ref. No.		Part No.		Part Name & Description		Pcs/ Set		Remarks	
C791		ECDD1H221K		Ceramic Capacitor	220pF	1			
C792		ECQM05153KZ		Mylar Capacitor	0.015μF	1			
C803, 804, 805, 806		ECQM05683KZ		"	0.068μF	4			
C807, 808		ECEA50V1		Electrolytic Capacitor	1μF	2		SD SUPPLY	
C809, 810		ECEA16V10		"	10μF	2		"	
C811, 812		ECEA50V1		"	1μF	2		"	
C813, 814		ECEA25Z4R7		"	4.7μF	2		"	
C815, 816		ECEA16V33		"	33μF	2		"	
C817, 818		ECEA16V10		"	10μF	2		"	
C881		ECEA16V33		"	33μF	1		"	
C882		ECEA10V100		"	100μF	1		"	
C883		ECEA35V4R7		"	4.7μF	1		"	
C901		ECQM05333KZ		Mylar Capacitor	0.033μF	1			
C902		ECEA35V4R7		Electrolytic Capacitor	4.7μF	1		SD SUPPLY	
C903		ECQM05102KZ		Mylar Capacitor	0.001μF	1			
C904, 905		ECEA16V10		Electrolytic Capacitor	10μF	2		SD SUPPLY	
C906		ECQM05102KZ		Mylar Capacitor	0.001μF	1			
C911		ECEA50Z1		Electrolytic Capacitor	1μF	1		SD SUPPLY	
C912		ECQM05272KZ		Mylar Capacitor	0.0027μF	1			
C913		ECQM05473JZ		"	0.047μF	1			
C914		ECQM05104KZ		"	0.1μF	1			
C915		ECQM05473JZ		"	0.047μF	1			
C916		ECQM05104KZ		"	0.1μF	1			
C917, 918		ECQM05103KZ		"	0.01μF	2			
C919		ECQM05473KZ		"	0.047μF	1			
C920		ECQM05103KZ		"	0.01μF	1			
C921		ECEA50Z2R2		Electrolytic Capacitor	2.2μF	1		SD SUPPLY	
C926		ECEA50V1		"	1μF	1		"	
C927		ECEA16V47		"	47μF	1		"	
C928		ECEA35V10		"	10μF	1		"	
C929, 941		ECQM05103KZ		Mylar Capacitor	0.01μF	2			
<b>COMBINATION PARTS</b>									
		QCRFWR1		C-C Combination Part		1			
		QCR0011		Spark Killer		2			
<b>TRANSISTORS</b>									
		2SC828		Transistor		1			
		2SA719		"		1			
		2SC1317		"		1			
		2SA719		"		1			
		2SC1317		"		1			
		2SC828		"		2			
		2SA719		"		2			
		2SC828		"		1			
		2SC1317		"		3			
		2SC828		"		1			
		2SA564		"		2			
		2SC1317		"		1			
		2SC828		"		4			

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
Tr22, 23	2SA719	Transistor	2		Tr130	2SC1684	Transistor	1	
Tr24	2SA564	"	1		Tr131	2SA564	"	1	
Tr25	2SC828	"	1		Tr132	2SC1317	"	1	
Tr26	2SC1317	"	1		Tr133, 134, 135, 136, 137				
Tr27, 28, 29, 30	2SC828	"	4		Tr138, 139	2SC828	"	5	
Tr31, 32	2SC1317	"	2		Tr140	2SC1684	"	2	
Tr33	2SA564	"	1		Tr141	2SC1383	"	1	
Tr34	2SC1317	"	1		Tr142	2SA683	"	1	
Tr35, 36, 37	2SC828	"	3		Tr143	2SC1383	"	1	
Tr38	2SA564	"	1		Tr144, 145, 146, 147, 148				
Tr39	2SC828	"	1		Tr149, 150, 151, 152	2SC828	"	1	
Tr40, 41	2SA564	"	2		Tr201, 202	2SA564	"	5	
Tr42, 43, 44, 45, 46					Tr203, 204, 205, 206, 207	2SC1327MST	"	2	
Tr47	2SC828	"	5		Tr208, 209	2SC1684	"	5	
Tr48, 49, 50, 51	2SC1317	"	1		Tr210	2SC828	"	2	
Tr52	PN150	Photo Transistor	4		Tr211	2SC1684	"	1	
Tr101, 102	2SC1327MST	Transistor	2		Tr214, 215, 216, 217, 218, 219, 220, 221, 222, 223	2SC1317	"	1	
Tr103, 104, 105, 106, 107					Tr224, 225	2SC828	"	10	
Tr108, 109	2SC1684	"	5		Tr226	2SC1327MST	"	2	
Tr110	2SC828	"	2		Tr227	2SC1684	"	1	
Tr111	2SC1684	"	1		Tr228	2SC828	"	1	
Tr112	2SC1317	"	1		Tr229	2SC1317	"	1	
Tr113, 114	2SA564	"	1		Tr230	2SC1684	"	1	
Tr115, 116, 117, 118, 119, 120, 121, 122, 123	2SC828	"	2		Tr231	2SA564	"	1	
Tr124, 125	2SC1684	"	9		Tr232	2SC1317	"	1	
Tr126	2SC1327MST	"	2		Tr233, 234, 235, 236, 237				
Tr127	2SC1684	"	1		Tr238, 239	2SC828	"	5	
Tr128	2SC828	"	1		Tr240	2SC1684	"	2	
Tr129	2SC1317	"	1		Tr241	2SC1383	"	1	
	2SA564	"	1		Tr242	2SA683	"	1	
					Tr501	2SC828	"	1	

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
Tr502, 503	2SC1407	Transistor	2		Tr717, 718, 719, 720, 721, 722		Transistor	6	
Tr504	2SC828	"	1		Tr723, 724, 725, 726, 727, 728	2SB512			
Tr505, 506, 507						2SC1328		6	
Tr508, 509	2SC1407	"	3		Tr729, 730, 731, 732, 733, 734	2SA683		6	
Tr510	2SD389	"	2						
Tr511	2SC828	"	1		Tr735, 736, 737, 738, 739, 740, 741, 742				
Tr512	2SC1383	"	1			2SD389		8	
Tr513, 514	2SC828	"	1		Tr743, 744, 745, 746				
Tr515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527	2SC1383	"	2		Tr747, 748, 749, 750	2SA564		4	
	2SC828	"	13			2SC828		4	
Tr601	2SD334	"	1		Tr751, 752, 753, 754				
Tr602	2SC1383	"	1		Tr791, 792, 801, 802, 803, 804, 805, 806, 807, 808	2SA564		4	
Tr603	2SC1684	"	1						
Tr604	2SC1846	"	1			2SC828		10	
Tr605	2SD334	"	1		Tr809, 810	2SC1317		2	
Tr606	2SC1407	"	1		Tr811, 812	2SA564		2	
Tr607	2SC1317	"	1		Tr813, 814, 815, 816, 817, 818				
Tr608	2SB512	"	1			2SC828		6	
Tr609	2SC828	"	1		Tr819, 820	2SA564		2	
Tr651	2SC828AT	"	1		Tr821, 822, 823, 824				
Tr652	2SC1848	"	1			2SC828		4	
Tr653	2SC1384	"	1		Tr825, 826, 827, 828, 829, 830, 831, 832				
Tr654	2SC828AT	"	1			2SA564		8	
Tr655	2SC1848	"	1		Tr881	2SC1317		1	
Tr656	2SC1384	"	1		Tr884	2SA564		1	
Tr701, 702, 703, 704					Tr885	2SC828		1	
	2SA564	"	4		Tr901	2SC1327		1	
Tr705, 706, 707, 708, 709, 710					Tr902, 926, 927				
	2SA722	"	6			2SC828		3	
Tr711, 712, 713, 714, 715, 716					Tr928	2SC1383		1	
	2SC1383	"	6		Tr929	2SC828		1	

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
Tf941	2SA564	Transistor	1		D19	LN55	LED	1	
Tf942	2SC1317	"	1		D101, 102	MA150	Diode	2	
Tf951, 952, 953, 954, 955					D103, 104, 105, 106				
	2SC828	"	5		MA150		"	4	
Tf956	2SA564	"	1		OA90M		"	2	
Tf966, 967, 968					MA150		"	2	
	2SA885	"	3		MA150		"	2	
Tf969, 970, 971					OA90M		"	2	
	2SC1846	"	3		D501, 502, 503				
Tf972, 973	2SC828	"	2		QVDM8513ARM		"	3	
Tf974	2SA564	"	1		MA1056		"	1	
Tf975, 976, 977, 978, 979					MA1150		"	1	
	2SC828	"	5		RVD10DC2		Silicon Rectifier	1	RD SUPPLY
					SR3AM2N		"	2	
		<b>INTEGRATED CIRCUITS</b>							
IC1	AN6251	Integrated Circuit	1		RVD10DC2		"	1	RD SUPPLY
IC2	M53204P	"	1		MA1062		Diode	1	
IC3, 4	M53200P	"	2		MA1150		"	1	
IC5	M53203P	"	1		MA1062		"	1	
IC6, 7	M53202P	"	2		SM102		Silicon Rectifier	1	
IC8	M53203P	"	1		MA1062		Diode	1	
IC911	AN660	"	1		SM102		Silicon Rectifier	1	
IC941	M58432P	"	1		MA150		Diode	1	
IC966	AN640	"	1		D651, 652		"	2	
		<b>DIODES &amp; RECTIFIERS</b>			D701, 702, 703, 704, 705, 706, 707, 708, 801, 802, 803, 804, 805, 806, 807, 808		"	16	
D1, 2, 3, 4, 5, 6	OA90M	Diode	6		MA150LF		"		
D7	MA150	"	1		OA90M		"	2	
D8	SM102	"	1		MA1062		"	1	
D9	MA150	"	1		MA1056		"	1	
D10, 11, 12, 13	OA90M	"	4		D951, 952, 956, 967, 968, 969, 970		"	7	
D14, 15	MA150	"	2		MA150		"		
D16	OA90M	"	1		LN21		LED	1	
D17, 18	MA150	"	2						



Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
		<b>TRANSFORMERS</b>		
T101, 201	QLT2D10A	Headphone Transformer	2	
T601	QLP2BFQA	Power Transformer	1	
		<b>COILS</b>		
L101	QLH2020	Peaking Coil	1	
L102, 103	QLH2019	Bias Trap Coil	2	
L201	QLH2020	Peaking Coil	1	
L202, 203	QLH2019	Bias Trap Coil	2	
L501	QLB0182	Oscillator Coil	1	
L502	QLB0181	High Frequency Coil	1	
L503	QLB0182	Oscillator Coil	1	
L504	QLB0181	High Frequency Coil	1	
L505	QLB0182	Oscillator Coil	1	
L506	QLB0181	High Frequency Coil	1	
L507	QLB0182	Oscillator Coil	1	
L508, 509	QLQX6814Y	Erase Dummy Coil	2	
		<b>SWITCHES</b>		
S1	QSW2214	Power ON/OFF Switch	1	
S2	Refer to VR926	Pitch Control Switch	(1)	
S3	QSR6301	Speed Select Switch	1	
S4, 5	QST4211	Tape/Source Select Switch	2	
S6	QST4306	Equalizer Select Switch	1	
S7, 8	QST4208	Record Mode Switch	2	
S9	QST2302	Bias Select Switch	1	
S10	QSW2209	Meter Range Select Switch	1	
S11	QSW2209	MIC Attenuator Switch	1	
S12	QSW2208	Timer Start Switch	1	
S13, 14, 15, 16, 17, 18				
S19, 20	EQQPAR11K	Control Key Switch	6	
	QSM0068	Micro Switch	2	
		<b>RELAYS</b>		
	QSK0134	Lead Relay	1	
	QSK0423	Relay	2	
		<b>FUSES</b>		
	XBAQ125028	Fuse (1.25AT)	5	
	XBAQ400032N	" (4AT)	2	
	XBAQ080030	" (800mA)	1	
		<b>ELECTRICAL PARTS</b>		
	QWY4011	Playback Head	2	
	QWY4014	Erase/Recording Head (Forward)	1	
	QWY4015	Erase/Recording Head (Reverse)	1	
	QSL9009RNM	Level Meter	2	
		<b>Main Amplifier Section</b>		
	QMA3188	Heat Sink	1	
	QMA2926	Back Side Angle	1	
	QMA2932	Side Angle (Left, Right)	2	
	QMA2944	MIC and Meter Amplifier Holding Angle	1	
	QMA2938	MIC and Meter Amplifier Sub Holding Angle	1	
	QMA3189	P.C.B. Holding Angle	3	
	QNQ1039	Nut for VR	3	
	QNQ1070	Nut for MIC and Holding Angle	3	
	QMA3147	Switch Holding Angle	1	
	QEJ5001SM	LINE IN/OUT Jack Board Assembly	1	
		<b>Capstan Motor Control P.C.B. Section</b>		
	QMA3192	Switch Angle	1	

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	
E16	QML3013	Power Switch Lever	1		
E17	QML3194	Power Switch Lever Arm	1		
E18	QXA0647	Power Switch Lever Holding Angle	1		
E19	QHQ1177S	Step Screw	1		
E20	XUC4FT	Stop Ring	1		
E21	QNQ1004	Nut for Speed, Auto Reverse and Pitch Control	3		
		<b>Real Motor Control P.C.B. Section</b>			
E22	QMA2941	P.C.B. Holding Angle (C)	1		
E23	QMA2942	P.C.B. Holding Angle (D)	2		
		<b>Power Supply P.C.B. Section</b>			
E24	QMF1861	P.C.B. Holding Plate	1		
E25	QMA3148	P.C.B. Holding Angle	1		
E26	QMA3156	Fuse Angle (A)	1		
E27	QTF1039	Fuse Holder (A)	2		
E31	QMA3155	Power Source Board Angle	1		
E32	QMA3158	Power Source Board Holding Angle	1		
E33	QJS0748	4 Pin DC-IN Socket	1		
E34	QFC1204M	AC Cord	1		
E35	QBU1425	AC Cord Bushing	1		
E36	QTD1164	AC Cord Clamper	2		
E37	QMF1933	AC/DC Select Switch Holding Plate	1		
E38	QJT1027	Earth Terminal Nut	1		
E39	QJT1025	Earth Terminal Shaft	1		
E40	QJT1026	Earth Terminal Seat	1		
E42	QTW1151	Spark Killer Cover	2		
E43	QJT4017	4 Pin Terminal	1		
E44	QKJ0189	Connector Cover	1		
E45	QMA2946	Power Source Board Holding Angle (A)	1		
		<b>Power Transformer Section</b>			
E46	QMA3149	Transformer Angle	1		
E47	QMA3159	Connector Angle	1		
E48	QTH1131	Heat Sink	1		
		<b>Miscellaneous</b>			
E49	QJP1923TN	9P Plug	6		
E50	QJP1924TN	12P Plug	6		
E51	QJP1925TN	15P Plug	2		
E52	QJP1921TN	3P Plug	13		
E53	QJS1921TN	3P Socket	13		
E54	QJS1922TN	6P Socket	9		
E55	QJS1923TN	9P Socket	6		
E56	QJS1924TN	12P Socket	5		
E57	QJS1925TN	15P Socket	2		
E58	QJS0776	2P Housing	2		
E59	QJS0789JN	12P Housing	2		
E60	QJS0803X	Remote Control Socket	1		
E61	QJT1054	Contact	230		
E62	QJT1040	"	4		
E63	QJT1053	"	12		
E64	QJT1042	"	24		
E65	QJT1041A	Flat Pin	40		
E66	QZE0003	Porcelain Tube	51		
E67	QJS0754	6P Housing	3		
E68	QJP1922TN	6P Plug	10		
		<b>CABINET PARTS</b>			
G1	XSN4+10BVS	Screw	6		
G2	QBJ3205	Washer	4		
G3	QGC1066	Top Cover	1		
G4	QKS1235	Back Board	1		
G5	QKJ0170	Cord Clamper	2		
G6	XSN4+35BVS	Screw	4		
G7	XWG4	Washer	14		
G8	QKA1053	Rubber Foot	4		
G9	XSN4+14BVS	Screw	4		
G10	QKS1220	Side Board	2		

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks		Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	
G11	XSN4+8S	Screw	4			G43	XTN3+8B	Tapping Screw	2		
G12	QGC1067	Bottom Cover	1			G44	QXB0494	Push Button (C) Assembly	1		
G13	QMH2005	Foot Holder	2			G45	QBC1231	Spring	2		
G14	QKJ0178	Foot for Bottom Side	4			G46	QXB0493	Push Button (B) Assembly	1		
G15	XTN3+12B	Tapping Screw	4			G47	QYT0451	Pitch Control Knob	1		
G16	XUC4FT	Stop Ring	2			G48	QYT0452	Knob Assembly	2		
G17	QMG0033	Tape Guide-1	2			G49	QYP0688	Operation Panel Assembly	1		
G18	XLCQ0001	Tension Roller	2			G50	QYP0683	Panel (B)	1		
G19	QMG0034	Tape Guide-2	2								
G20	QMC0074	Sleeve	2			G51	XUB16FP	C Ring	2		
						G52	QKJ0167	Spacer	4		
G21	QBG1559	Stopper Rubber	2			G53	QBP1712	Plate Spring	2		
G22	QMC0054	Spacer	2			G54	QYK0092	Function Panel Cover	1		
G23	XVE3C8FZS	Hexagon Screw	4			G55	XVE4C30FZS	Hexagon Screw	4		
G24	QHQ1247	Step Screw	2			G56	QYT0407	Volume Knob (D) Assembly	2		
G25	QBC1278	Tape Guide Spring	2			G57	QBJ3299	Washer	3		
G26	QMG0046	Tape Guide-3	2			G58	QYT0406	Volume Knob (C) Assembly	3		
G27	QMG0045	Tape Guide-4	2			G59	QYT0413	Master Knob Assembly	1		
G28	QMG0031	Tape Guide-5	2			G60	QYT0449	Lever Knob (L) Assembly	2		
G29	QMS2430	Reversing Roller Shaft	1								
G30	XXE3D10FZS	Screw	1			G61	QYT0450	Lever Knob Assembly	4		
						G62	QBJ1459	Spacer	1		
						G63	QYT0412	Knob (L) Assembly	1		
								<b>ACCESSORIES</b>			
G31	QXP0544	Pressure Roller Assembly	2					Connection Cord	2		
G32	QBC1202	Spring	1			A1	RP023A	Reel Holder	2		
G34	QBW2016	Washer	2			A2	QYQ0271	Dust Cover Assembly	1		
G35	QGK2731	Pressure Roller Ornament	2			A3	QYC0183	Reel Table Spacer	1		
G36	QXP0559	Reversing Roller Assembly	1			A4	QYQ0274	Head Cleaner	1		
G37	XUC7FT	Stop Ring	1			A5	QFX0013	Instruction Book	1		
G38	QBP1714	Plate Spring	1			A6	QQT2221				
G39	QDP1701	Roller	1								
G40	QBF1254	Felt	1								
G41	QGK2643	Roller Ornament	1								
G42	QXB0492	Push Button Assembly	2								

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
P1	QPN3646	<b>PACKINGS</b> Inner Packing	1	
P2	QPA0238	Cushion-A	1	
P3	QPA0239	Cushion-B	1	
P4	QPA0240	Cushion-C	1	
P5	QPA0241	Cushion-D	1	
P6	QPA0242	Cushion-E	1	
P7	XZB50X58XA05	Poly Sheet for Main Unit	1	